

20001003.qrp v01_n963.qrl.20001003

Date: Tue, 3 Oct 2000 19:03:08 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1963

QRP-L Digest 1963

Topics covered in this issue include:

- 1) [80604] Re: Soldering old antenna wire
by Rick McKee <kc8aon@juno.com>
- 2) [80605] Re: Grid-squares
by "laura halliday" <marsgal42@hotmail.com>
- 3) [80606] Fw: [Elecrafft] Knob Group Purchase
by Robert G Seymour <bobsey1@juno.com>
- 4) [80607] Forty-Meters late night es stuff
by Chuck Adams <k7qo@primenet.com>
- 5) [80608] Apartment Antenna
by Karl Banaszek <kaylon@golden.net>
- 6) [80609] Re: ZN414 IC for sale
by semann@tcia.net (Steven Mann)
- 7) [80610] WTB: NE4040 kit unbuilt
by Chuck Adams <k7qo@primenet.com>
- 8) [80611] How do you get scratches out of Lexan?
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 9) [80612] Re: How do you get scratches out of Lexan?
by "Trevor Jacobs" <fxtech@earthlink.net>
- 10) [80613] Re Scratches
by Pete Burbank <plburbank@kih.net>
- 11) [80614] How do you get scratches out of lexan
by M Goins <mgoins@usa.net>
- 12) [80615] Possible Rig?--Sorry for BW
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 13) [80616] Beastly Signs1
by Pete Burbank <plburbank@kih.net>
- 14) [80617] All items sold....thanks.
by Todd Atkins <bcs@home.com>
- 15) [80618] FS: Wilderness SST-20 + Tick 1 keyer
by Dave Redfearn <n4elm@home.com>
- 16) [80619] Spartan Sprint @ 100 mW
by Randy Foltz <rfoltz@turbonet.com>
- 17) [80620] FS - Remaining Items
by radioham@home.com
- 18) [80621] Re: How do you get scratches out of Lexan?
by bob evinger <wd9eka@arrl.net>
- 19) [80622] Removal of Scratches from Plastics

- by Chuck Adams <k7qo@primenet.com>
- 20) [80623] unsubscribe
by Lbschafer@aol.com
- 21) [80624] RE: Cajun DX (from Spain)
by "Juan Jose Pastor Estornell" <juanjope@ctv.es>
- 22) [80625] W6MMA's PW-1 antenna gets Shrunk!
by "Bob White" <bobwhite@innercite.com>
- 23) [80626] Re: How do you get scratches out of Lexan?
by "Rod Cerkoney" <n0rc@hotmail.com>
- 24) [80627] Re: General
by Peter_Simpson@ne.3com.com
- 25) [80628] Re: How do you get scratches out of Lexan?
by "Mike Yetsko" <myetsko@insydesw.com>
- 26) [80629] FS: TenTec transverter (kit)
by "N3BJ" <qrpdx@earthlink.net>
- 27) [80630] Any QRP enthusiasts at the Rochester Hamfest ?
by Maxime Prati <mprati@postech.ca>
- 28) [80631] RE: How do you get scratches out of lexan
by "Lofstead, Jerry" <Jerry.Lofstead@hboc.com>
- 29) [80632] RE: Soldering old antenna wire
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 30) [80633] QRPp & QRPpp
by "Steve/n0tu" <n0tu@webaccess.net>
- 31) [80634] Lighthouse Christmas Lights Event
by "John L. Sielke" <jsielke@pobox.com>
- 32) [80635] TRC-57
by Peter Wotherspoon <peter.c.wotherspoon@Hydro.ON.CA>
- 33) [80636] Has anyone tried this?
by Drbob92031@aol.com
- 34) [80637] Re: WTB: NE4040 kit unbuilt
by Bill Jones <kd7s@psnw.com>
- 35) [80638] MFJ 9410X 10M SSB for sale
by Gil Kellersman <gilkell113@yahoo.com>
- 36) [80639] What's an RF VTVM?
by KW1ND Mike <kw1nd@megalink.net>
- 37) [80640] Kenwood Station For Sale
by "Ron Polityka" <wb3aal@fast.net>
- 38) [80641] Re: What's an RF VTVM?
by "Mike Yetsko" <myetsko@insydesw.com>
- 39) [80642] RE: Has anyone tried this?
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
- 40) [80643] Re: Has anyone tried this?
by "Mike Yetsko" <myetsko@insydesw.com>
- 41) [80644] Re: Has anyone tried this?
by "Bob Duckworth" <wb4mnf@atl.org>
- 42) [80645] Re: How do you get scratches out of Lexan?
by Robert P Engelman <rengelwb8uoj@juno.com>
- 43) [80646] Contest: ARS Spartan Sprint Results K7RE

by Brian Kassel <bkassel@dancris.com>
44) [80647] Re: How do you get scratches out of Lexan?
by "Rod Cerkoney" <n0rc@hotmail.com>
45) [80648] RE: Has anyone tried this?
by "Karl F. Larsen" <k5di@zianet.com>
46) [80649] Re: How do you get scratches out of Lexan? (Meguiar's Products)
by K5KW@aol.com
47) [80650] RE: Any QRP enthusiasts at the Rochester Hamfest ?
by "AI2Q Alex" <ai2q@ispchannel.com>
48) [80651] Re: What's an RF VTVM?
by Lew Paceley <lew@paceley.com>
49) [80652] FOX - Winter Hunt Teams -
by Bruce Rattray <rattray@gpfn.sk.ca>
50) [80653] Neutralizing a PA (was: What's an RF VTVM?)
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
51) [80654] RE: Any QRP enthusiasts at the Rochester Hamfest ?
by "AI2Q Alex" <ai2q@ispchannel.com>
52) [80655] Re: Contest: ARS Spartan Sprint Results
by Dean W Manley <kh6b@juno.com>
53) [80656] Travel Antenna - Measuring tapes (tape measures) de AL7FS
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
54) [80657] RE: Lexan-packaged 2N2/40
by "AI2Q Alex" <ai2q@ispchannel.com>
55) [80658] Getting Scratches out of Lexan
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
56) [80659] Re: Contest: ARS Spartan Sprint Results
by Macstein@aol.com
57) [80660] question about foxhunting
by "Hans Kaper" <hanskap@kaper-1.tmfweb.nl>
58) [80661] U-310s
by "Ed Tanton" <n4xy@att.net>
59) [80662] Re: What's an RF VTVM?
by "SAAD MAHAINI" <kb6vir@home.com>
60) [80663] Looking for an SD-20 Pole? New stuff in the SEP WorldRadio...
by Robert McAtee <w5tnj@camalott.com>
61) [80664] The Complete DX-er
by "Harvey Laidman" <harvey1@outadaloop.com>
62) [80665] Re: U-310s
by Lew Paceley <lew@paceley.com>
63) [80666] W8PIG/9 and the HoosierHills Hamfest
by Brian <brian@iquest.net>
64) [80667] Slate Gap island on 4 October
by Jim Hale <kj5tf@yahoo.com>
65) [80668] RE: WARNING ...
by "Brian B. Riley, N1BQ" <n1bq@wulfdan.org>
66) [80669] Re: What's an RF VTVM?
by "John Moriarity" <k6qq@hdo.net>
67) [80670] FW: Aurora Watch + An Unusual Asteroid

- by "Ed Tanton" <n4xy@att.net>
- 68) [80671] Re: What's an RF VTVM?
by NB6M@aol.com
- 69) [80672] Michigan QRP Net
by ekwik@rtimail.com
- 70) [80673] Contest Calendar 2001 for the QRPers
by "Ron Polityka" <wb3aal@fast.net>
- 71) [80674]
by Majority Mike Capt 56 TRS/IP <mike.majority@luke.af.mil>
- 72) [80675] Re: Has anyone tried this?
by Tim Soxman <tims@hhs.net>
- 73) [80676] Re: (no subject) Twinlead portable dipoles
by Allan Taylor <k7gt@qsl.net>
- 74) [80677] CQ Steve N4TKP.....Here's The Info You Asked For.....
by "Andy GM0NWI" <Gm0nwi@tesco.net>
- 75) [80678] Foxhunt 2001
by Ed Loranger <we6w@qsl.net>
- 76) [80679] RE: Any QRP enthusiasts at the Rochester Hamfest ?
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>

Date: Mon, 2 Oct 2000 18:46:41 EDT
From: Rick McKee <kc8aon@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [80604] Re: Soldering old antenna wire
Message-ID: <20001002.190157.4479.4.kc8aon@juno.com>

Try soaking the end of the wire (several inches of it) in a mild acid bath. Muratic acid like they use at radiator repair shops would work, but you need to dalute it with water first. I think you can still get the stuff at the bigger auto parts stores like NAPA. You might also try soaking it overnight in plain old white vinegar full strength. This is very cheap - less than a buck a gallon ! After the acid has eaten all the corrosion down to bare metal, rinse it well with plain water. Then clean it with a wire brush, a brass gun cleaning brush is good for this purpose. Then tin the wires before you twist them, this makes the solder flow better and assures that you get a penetrating solder job.

Good luck !

Best 73 & Don't get on a power trip !
Rick McKee, KC8AON Willow Wood, Ohio
QRP-L #2112 AR-QRP #269 Flying Pigs #33

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 03 Oct 2000 00:17:15 GMT
From: "laura halliday" <marsgal42@hotmail.com>
To: qrp-1@lehigh.edu
Subject: [80605] Re: Grid-squares
Message-ID: <F206q7yBpUoQsv4cF2K0000a9ff@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

While it seems to be on the way out, for a long time North American utility poles had a label on them that gave their latitude and longitude to the nearest minute. The encoding is straightforward - a number string like "4915 2259" decodes to 49 degrees 15 minutes north, 122 degrees 59 minutes west (adding the leading 1 when needed).

This is the basis for the grid I quote in my .sig, based on the power pole in the alley. For the grid I quoted while at school in Toronto (FN03gs) I cheated: I borrowed a GPS receiver.

Laura Halliday VE7LDH "Que les nuages soient notre
Grid: CN89mg pied a terre..."
 - Hospital/Shafte

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<http://profiles.msn.com>.

Date: Mon, 2 Oct 2000 14:49:09 -0700
From: Robert G Seymour <bobsey1@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [80606] Fw: [Elecraft] Knob Group Purchase
Message-ID: <20001002.191947.-145739.1.Bobsey1@juno.com>
MIME-Version: 1.0
Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Thanks for trying Steve. We really appreciate your efforts.
Bob, WOLK

----- Forwarded message -----

From: "Steve Thompson" <steve@xcvr.com>

To: <elecraft@qth.net>

Date: Mon, 2 Oct 2000 06:34:21 -0700

Subject: [Elecraft] Knob Group Purchase

Message-ID: <007e01c02c75\$79cdcc60\$4267c6d0@n7tx>

Reply-To: "Steve Thompson" <steve@xcvr.com>

Received: from mx2.jersey.juno.com (mx2.jersey.juno.com [64.136.16.52])
by m11.jersey.juno.com with SMTP id AAA67TD4TADV393S
for <bobsey1@juno.com> (sender <owner-elecraft@listserver.qth.net>);
Mon, 2 Oct 2000 09:36:17 -0400 (EST)

Received: from mx1.boston.juno.com (mx1.boston.juno.com [63.211.172.33])
by mx2.jersey.juno.com with SMTP id AAA67TD4TAA4TXQS
for <bobsey1@juno.com> (sender <owner-elecraft@listserver.qth.net>);
Mon, 2 Oct 2000 09:36:17 -0400 (EST)

Received: from listserver.qth.net (listserver.qth.net [63.238.179.180])
by mx1.boston.juno.com with SMTP id AAA67TD4MACZX8BJ
(sender <owner-elecraft@listserver.qth.net>);
Mon, 2 Oct 2000 09:36:11 -0400 (EST)

Received: (from majordom@localhost)
by listserver.qth.net (8.9.3/8.9.3) id VAA08501
for elecraft-outgoing; Mon, 2 Oct 2000 21:54:25 -0400

Received: from webterminator35.crystaltech.com (mail.crystaltech.com
[207.254.115.36] (may be forged))
by listserver.qth.net (8.9.3/8.9.3) with ESMTP id VAA08497
for <elecraft@qth.net>; Mon, 2 Oct 2000 21:54:23 -0400

Received: from n7tx [208.198.103.66] by webterminator35.crystaltech.com
(SMTPD32-6.04) id AF479E0294; Mon, 02 Oct 2000 06:36:07 -0700

X-Mailer: Microsoft Outlook Express 5.50.4133.2400

MIME-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Precedence: bulk

X-Priority: 3

Sender: owner-elecraft@qth.net

X-MSMail-Priority: Normal

Return-Path: <owner-elecraft@listserver.qth.net>

X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400

Hi K2'ers -

For those of you who have expressed interest in the group purchase of a
Buckeye knob ...

I have finally given up on Buckeye, and have lost faith that I will ever be able to get something going with them. I have been promised several times that "sample" knobs were on their way, the last promise being made on September 11th. I have had a difficult time getting responses out of them, and those that I do get, are not resulting in any action. At this point, it appears that Buckeye Shapeform (the company which produces the knob we've been looking at) is not interested in our business!

I sincerely apologize to those who have been counting on getting one of these knobs. If anybody finds another aftermarket knob which is as good (or better) than Buckeye's and can be purchased for significantly less money as a "group purchase", I'd be glad to manage such a group purchase for that one :-)

73,

Steve - N7TX

Submissions: elecraft@qth.net

Please note: The list server automatically rejects HTML encoded emails.

List Archive page: <http://www.qth.net/archive/elecraft/elecraft.html>

Elecraft Web Page: <http://www.elecraft.com>

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Date: Mon, 02 Oct 2000 17:32:23 +0100

From: Chuck Adams <k7qo@primenet.com>

To: qrp-l@lehigh.edu

Subject: [80607] Forty-Meters late night es stuff

Message-ID: <4.3.2.7.0.20001002172224.00ac7540@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

I finished two projects for Pacificon. And I need help in shaking them down. So each night starting today and until Pacificon I plan on being on 40 meters around the watering hole of 7.040 MHz +/- 10 KHz or so late at night, say 0400UTC or later. Maybe earlier when all the other people using the freq. clear out. I know it's late for the right-coast people.

Two reasons for being on: to check the rigs and to check antenna directionality for the foxhunts and SS in November. I am pretty sure the antenna is aimed N to NE, but I am and will be in the process of rotating the vee-beam. Also using W7EL's new EZNEC 3.0 to do some modeling. Film at 11 and a review on the software later next week.

I also bought today a 9,000V transformer for a final amplifier today. :-) Joke people, it's a joke. I did get the voltage above but it is for a scientific experiment and I do know about lethal voltages and all that stuff so no email on the subject, please.....

I need 50 states from the new QTH and this is the start. See ya on 40 meters. I'll be listening for the SMK-1's.

And thanks to all the replys on the aluminum/vacuum stuff. I got more email on that than anything that I've done on QRP-L. Go figure. I'm still working through some of them, so you will get email from me if you sent me something.

S. Sam, you still have the mirror? I'm interested.

dit dit

Chuck Adams, K7QO Prescott, AZ

Date: Mon, 02 Oct 2000 20:02:52
From: Karl Banaszek <kaylon@golden.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80608] Apartment Antenna
Message-ID: <3.0.6.16.20001002200252.132f720a@golden.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to everyone who sent suggestions and advice to the discussion group and private e-mails on antenna's in apartments last week. I have temporarily put up a mobile magnet mount whip, cut to the 10 meter band, on the corner of the balcony, this afternoon. I have a Radio Shack HTX-10, 10-meter transceiver supplied with a "Portawattz Power Pac", a portable battery backup power source which can be used as a power supply. I managed to make a contact with Cuba, with a 59 signal report, which made my day. I will in the near future, do some experiments trying various antennas, namely 2 whips, end to end, running like a dipole. I will let the group know how it went. Again thanks.

Regards
Karl, VE3NPQ

Date: Mon, 02 Oct 2000 21:41:20 -0400
From: semann@tcia.net (Steven Mann)
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80609] Re: ZN414 IC for sale
Message-ID: <39D93940.2A7E5EF8@tcia.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I have an unused ZN414 receiver IC which I purchased several years ago but never used.

I also have the Ferranti (manufacturer) data sheets for it.

This IC operates 1.2 to 1.6 volts with 1.3 vdc recommended.

If interested please email.

Steve, N4EY

Date: Mon, 02 Oct 2000 19:10:34 +0100
From: Chuck Adams <k7qo@primenet.com>

To: qrp-1@lehigh.edu
Subject: [80610] WTB: NE4040 kit unbuilt
Message-ID: <4.3.2.7.0.20001002190745.00abea10@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Gang,

Some of you have this kit unbuilt and have others of more recent vintage to build anyway. I'd be interested in getting one of these unbuilt.

For those that may not know, this is the 40 meter \$40 kit that Dave Benson, NN1G, did for the NE QRP Club some 4 or more years ago. It was an excellent kit and I had built a couple but sold them in the K5FO Estate Sale (tm) last year. They went to good homes and hopefully are being utilized.

I have a need for one unbuilt and would appreciate getting one ASAP.

dit dit es tnx

Chuck Adams, K7Q0 Prescott, AZ

Date: Mon, 2 Oct 2000 20:00:04 -0700
From: ki6ds@dpo1.k12.ca.us (Hendricks, Doug)
To: <qrp-1@lehigh.edu>
Subject: [80611] How do you get scratches out of Lexan?
Message-ID: <01c02ce6\$0733a820\$330b0d0a@dhendricks>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Does anyone know how to get fine scratches out of lexan? Will a fine metal polish work?? Thanks, Doug, KI6DS

Date: Mon, 2 Oct 2000 20:12:49 -0700

From: "Trevor Jacobs" <fxtech@earthlink.net>
To: <ki6ds@dpol.k12.ca.us>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80612] Re: How do you get scratches out of Lexan?
Message-ID: <020901c02ce8\$0226b5a0\$01e9b3d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Doug,

Try a plastic polish. I had to get scratches out of a lexan tube a few years ago and plastic polish works great. Do a search on the internet for it. Is it clear? The stuff I used is generally used for polishing plastic lenses. Hope this helps, I can't remember the brand name.

73
Trev
KG6CYN

----- Original Message -----

From: Hendricks, Doug <ki6ds@dpol.k12.ca.us>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Sent: Monday, October 02, 2000 8:00 PM
Subject: How do you get scratches out of Lexan?

> Does anyone know how to get fine scratches out of lexan? Will a fine
metal
> polish work?? Thanks, Doug, KI6DS
>
>

Date: Mon, 02 Oct 2000 23:12:56 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-1@Lehigh.EDU>
Subject: [80613] Re Scratches
Message-ID: <3.0.32.20001002231251.0077e910@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Doug,
There is a product called Micro-Mesh, originally developed
for aircraft windows.
It's ultrafine sandpaper(cloth) in increasing grit #s into the thousands

and it lasts a long time. I got mine from Shorty's or Sporty's
Airplane outfit but I have seen it advertised in other places
for woodworkers.
73 Pete NV4V

Date: 2 Oct 00 22:13:13 EST
From: M Goins <mgoins@usa.net>
To: qrp-l@LeHigh.EDU
Subject: [80614] How do you get scratches out of lexan
Message-ID: <20001003031313.11074.qmail@aw164.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Toothpaste will usually do it, if the scratches are small. It's very mild=
ly
abrasive and nearly any brand should work fine. Use a soft cloth - paper
towels have wood fibers in them.

mike
wb5yjx
k2#621

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Mon, 2 Oct 2000 23:13:15 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [80615] Possible Rig?--Sorry for BW
Message-ID: <200010022313_MC2-B577-1C7A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
charset=ISO-8859-1
Content-Disposition: inline

Gang:

For some reason this message went to the entire list. Nuts: -). Sorry f=
or
the wasted BW. =

72/73,

--W.D. (Doc) Lindsey

DSBF

PO Box 6028

Bismarck, ND 58506

(Shipping =3D DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)

E-Mail =3D K0EVZ@arrl.net

Date: Mon, 02 Oct 2000 23:20:49 -0400

From: Pete Burbank <plburbank@kih.net>

To: <qrp-l@Lehigh.EDU>

Subject: [80616] Beastly Signs1

Message-ID: <3.0.32.20001002232046.0077e804@kih.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

What is that horrible signal that cranked up on 7040....now off at
0313 UTC? S-9 in Ky.

73 Pete NV4V

Date: Mon, 02 Oct 2000 22:27:44 -0500

From: Todd Atkins <bcswh@home.com>

To: qrp-l@Lehigh.EDU

Subject: [80617] All items sold....thanks.

Message-ID: <5.0.0.25.2.20001002222651.00a33a60@24.0.95.83>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

All items are sold. Thanks everyone, and

72,

Todd Atkins, K4MSW

Baton Rouge, Louisiana

Date: Mon, 02 Oct 2000 22:43:53 -0500

From: Dave Redfearn <n4elm@home.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [80618] FS: Wilderness SST-20 + Tick 1 keyer

Message-ID: <39D955F9.3507B944@home.com>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

For Sale:

Wilderness Radio SST-20 HF transceiver

Covers +/- 14.060 or so, about 2 watts output
with Tick 1 keyer mounted on case top.

Built, used, working in good condition.

\$80.00 OBO

73 - Dave

=====
Dave Redfearn, ARS N4ELM, McKinney, TX
Email: n4elm@NOJUNKhome.com (to reply, remove NOJUNK)
QRL? de N4ELM/qrp

Date: Mon, 02 Oct 2000 09:03:30 -0700
From: Randy Foltz <rfoltz@turbonet.com>
To: qrp1_post <qrp-1@lehigh.edu>
Subject: [80619] Spartan Sprint @ 100 mW
Message-ID: <39D8B1D2.3E4B0D26@turbonet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I worked the October Spartan Sprint at 100 mW with a K2 and a GAP Titan antenna. From here in ID I made only 6 contacts, but they were worth it! The farthest was with Carter, N3A0, in PA for 21,090 miles per watt. Other 20 m contacts were with Doc, K0EVZ, in ND for 7,660 miles per watt, Mert, W0UFO, in MN for 11,510 miles per watt, and Brian, K7RE, in AZ for 9,420 miles per watt. Before the contest was over I made two 40 m contacts. One with Russ, AA7QU, for 3,230 mpw and one with Wes, W7Z0I, for 2,900 mpw. Each of these operators have great ears!

At 100 mW you don't work everyone you hear. It seemed that stations on the edges of the activity had better success.

Tonight increased my state total to 8 with 2 provinces since

the first of September using the GAP and 100 mW.

Over the weekend I worked JE1REU on 10 m for 50,200 miles per watt. He gave me a 559, but maybe he was just generous. At least I didn't have to repeat things.

It doesn't take beams on tall towers to work a few with 100 mW. (But it helps!)

73,
Randy
K7TQ
Moscow, ID

Date: Tue, 03 Oct 2000 00:08:29 -0400
From: radioham@home.com
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80620] FS - Remaining Items
Message-ID: <3.0.6.32.200010030000829.007b8100@24.2.2.70>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

All sold except the following:

Heathkit HD-1422 Antenna Noise Bridge with manual. Good shape, some small scratches on case. Brown cabinet to match HW-9.
\$45 shipped in US.

Heathkit HD-1418 Active Audio Filter with power cube and manual. Good condition. Brown cabinet to match HW-9.
\$45 shipped in US

Swan WM-2000 SWR/Wattmeter - this is a classic analog unit with very large meter face in great shape. Covers 3.5 - 30 MHz and has settings for 200, 1000 and 2000 watts. Not exactly for QRP use, but works very well for intended power levels. No manual.
\$50 shipped in US.

72/73,

Steve, N4EUK
Reston, VA

Date: Mon, 02 Oct 2000 22:51:04 -0500
From: bob evinger <wd9eka@arrl.net>
To: ki6ds@dpol.k12.ca.us, qrp <qrp-1@lehigh.edu>
Subject: [80621] Re: How do you get scratches out of Lexan?
Message-ID: <39D957A8.1D88CF13@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

"Hendricks, Doug" wrote:

>
> Does anyone know how to get fine scratches out of lexan? Will a fine metal
> polish work?? Thanks, Doug, KI6DS

McGuires makes polish that does a pretty good job of it. Check your
local
airport fixed base operator or one of the online aircraft supply houses.

AIrcraft Spruce and SPecialty (washington state)
California Power Systems (san diego)
WICKes aircraft supply (highland, il)

Sorry don't have their web addresses off the top of my head.
McGuires makes a cleaner and a seperate polish. It is amazing what
it can do to clean up and descraatch buggy, dusty aircraft windshields.
WHat you have can't be anyworse than some of those.

bob

--

Bob Evinger WD9EKA Marshall, Illinois
If Guns Cause Crime, Then Matches Cause Arson.

Date: Mon, 02 Oct 2000 21:36:19 +0100
From: Chuck Adams <k7qo@primenet.com>
To: qrp-1@lehigh.edu
Subject: [80622] Removal of Scratches from Plastics
Message-ID: <4.3.2.7.0.20001002213206.00a9e3f0@pop.primenet.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Doug, et.al.,

I would think the same stuff that is used for the removal of scratches from CDs, both video and audio, would work nicely.

I find the stuff at Hastings Books and I'd think that video stores that rent DVDs would also have the stuff on the shelves.

Anyone with experiences using the stuff chirp up. Considering the expense of CDs and the fact that any manufacturer of scratch removal compounds would be subject to severe criticism from a large customer base I'd think that the compound would be safe to use. It costs about \$8 for a small bottle here in the boonies of Northern Arizona.

FYI,

Chuck Adams, K7Q0 Prescott, AZ

Date: Tue, 3 Oct 2000 01:00:12 EDT
From: Lbschafer@aol.com
To: qrp-1@lehigh.edu
Subject: [80623] unsubscribe
Message-ID: <60.76a9bcc.270ac1dc@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Date: Mon, 2 Oct 2000 17:43:54 -0000
From: "Juan Jose Pastor Estornell" <juanjope@ctv.es>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80624] RE: Cajun DX (from Spain)
Message-ID: <000201c02d0a\$e6391f40\$c78e19d4@fer>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 8bit

>Joel,

Hi, Bruce, Joel and everybody else.

>

>I have been a DXer and a contester in my past lives. I'll let you in on

>a secret. I started contesting because I wanted to try out my
>station/antenna setup. I had just moved into Holland, PA land, and
>gotten the call PA3AIC. I wanted to know how well my TS520 and 14AVQ
>vertical worked. In one afternoon I worked 70 countries in the CQ WW
>test. Pretty good, thought I. And I was hooked on contesting and
DXing
>in one afternoon.

>

>I lived over there 3 years and eventually worked 150 countries and all

>states on all bands, from 80 through 2 meters. My most rewarding
QSOs?

>Working England from Holland on 2 meter CW using an indoor antenna!

>

>Spain is sort of a black hole where DX is concerned. I worked a few
of

>them, but not very many. Hams just aren't too plentiful or active
>there. If you want hard, try to work EA9's in North Africa!

>

This last line made me pop out of my hole (as Ron/Monte would say. I miss your posts...). I do not know when Bruce was a PA call, but Spain is a quite an usual country on the bands and DX. There was an age (namely the 80's) when not much Spanish stations were hamming in CW as the receiving test was optional and the ones active in CW were ex-professional operators or self taught type of operators. That was changed radically in the 90's with the return of the CW reading tests and the CW operator numbers have been climbing steadily until the boom of the internet. Nowadays it seems there are more people leaving the hobby and way less people entering it... Anyway you'll find EA stations quite easily on the usual transatlantic bands (40 when it gets long, 30, 20, 15...). We EC novice stations are harder to find because not much new people is entering the hobby now and because of our segment allocations, out of the usual operation segments. I plan to be back on the air on 28.108 (I cannot work under 28.100 though most of the activity is at the band bottom...) before the local sunset trying to find some "grey line" propagation driving my QRP sigs out of Europe, because I can work Germans and Russians any other day!

>Everything eventually comes to you if you are persistent. Working DX is

>not like shooting fish in a barrel! It takes time and thought to work

>the hard ones. Moving your antenna sounds like a plan, if you can.
>
>73
>

I should speak about antennas (and my particular one) in another e-gram...

73, 72 de Juanjo, EC5ACA/QRP. EA-QRP #104, G-QRP #9742, QRP-L #1662.

Juanjo Pastor
C/San Roque, 4-1
46460 Silla
Valencia
ESPA A

Tel. +34 96 120 17 67
e-mail: ec5aca@qsl.net

Date: Tue, 3 Oct 2000 12:17:24 +0100
From: "Bob White" <bobwhite@innercite.com>
To: <qrp-l@lehigh.edu>
Subject: [80625] W6MMA's PW-1 antenna gets Shrunk!
Message-ID: <006f01c02d2b\$a146f6c0\$0438de9e@ssd.loral.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I was visiting with Vern W6MMA the other night and he let me borrow one of his latest superantenna's products the MP-1 antenna. The MP-1 antenna is even smaller then the PW-1 antenna which will make the backpackers happy.

The MP-1 can handle up to 100W and is usable 6 through 40 meters. Vern is also working on a tripod stand for this antenna.

One thing really nice about the MP-1 is that all of the antenna pieces fit inside the antenna's coil for easy storage.

Picture of MP-1 with C clamp, radials, and base plate.
<http://www.geocities.com/bobwhitewo3b/mp1.jpg>

Picture of MP-1 and antenna pieces
<http://www.geocities.com/bobwhitewo3b/mp1parts.jpg>

Date: Tue, 3 Oct 2000 02:09:10 -0600
From: "Rod Cercone" <n0rc@hotmail.com>
To: <wd9eka@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Doug Hendricks" <ki6ds@dospalos.org>
Subject: [80626] Re: How do you get scratches out of Lexan?
Message-ID: <0E47dTyj6iZkxUWZoIp00001a5a@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Doug, Bob, et.al.

The spelling is actually: Meguiar's

They do have a website: <http://www.meguiars.com/> but it seems to be down tonight, it responds to pings however.

As for removing fine scratch it plastic: Meguiar's polish IS GREAT!
I used it on my motorcycle helmet visor. It's well known in the motorcycle world for just this purpose. A good motorcycle shop should carry it.

Also try www.google.com searching for Meguiar's there are a number of online dealers that sell Meguiar's products.

73, Rod N0RC
Ft Collins CO

----- Original Message -----

From: "bob evinger" <wd9eka@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Monday, October 02, 2000 9:51 PM
Subject: Re: How do you get scratches out of Lexan?

> "Hendricks, Doug" wrote:

> >

> > Does anyone know how to get fine scratches out of lexan? Will a fine metal

> > polish work?? Thanks, Doug, KI6DS

>

>

> McGuires makes polish that does a pretty good job of it. Check your

> local
> airport fixed base operator or one of the online aircraft supply
houses.

Date: Tue, 3 Oct 2000 06:10:34 -0400
From: Peter_Simpson@ne.3com.com
To: qrp-l@Lehigh.EDU
Subject: [80627] Re: General
Message-ID: <8525696D.003834BB.00@usboxmta.ne.3com.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Back when I got my Tech, we had:

/KT - waiting for Tech
/AG - waiting for General
/AA - waiting for Advanced
/AE - waiting for Extra

As far as I know, they don't "stand" for anything. They
are just the suffixes the FCC says you need to sign while
you wait for your license upgrade to show up in the mail.

My experience was that they seemed to get "forgotten" within
about a week. They are actually pretty silly, IMHO. A lot
of ham radio is built on courtesy, common sense and trust.
Seems like a ham should be able to be trusted to operate
within whatever privileges he or she has earned.

72,
Peter

Date: Tue, 3 Oct 2000 06:11:30 -0400
From: "Mike Yettsko" <myetsko@insydesw.com>
To: <ki6ds@dpol.k12.ca.us>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [80628] Re: How do you get scratches out of Lexan?

Message-ID: <001801c02d22\$4ff702a0\$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Years ago motorcycle shops sold a 'polish' for getting scratches
out of visors and windshields. It might still be available.

It 'sorta' worked.

Mike

> Does anyone know how to get fine scratches out of lexan? Will a fine
metal
> polish work?? Thanks, Doug, KI6DS
>
>

Date: Tue, 3 Oct 2000 06:57:26 -0400
From: "N3BJ" <qrpdx@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80629] FS: TenTec transverter (kit)
Message-ID: <00e801c02d28\$b8ac1140\$34dcccdf@pavilion>

This is the 20 to 6 meter version. All there, no longer needed here.

\$80 shipped

Alan, N3BJ

Date: Tue, 3 Oct 2000 07:42:28 -0400
From: Maxime Prati <mprati@postech.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [80630] Any QRP enthusiasts at the Rochester Hamfest ?
Message-ID: <1184DDFC52DBD311AF510050DA799BB723C850@INTERNET-SERVER>
MIME-Version: 1.0
Content-Type: text/plain

Hi all !

Anybody go to the Rochester hamfest this week-end ?

I will be glad to have infos about QRP activities, meeting, get together will be appreciated !

73 de VE2HAC

"Eagles soar, but weasels never get sucked into jet engines."

Maxime Prati
Embedded Systems Development
Position Technology
www.postech.ca
mprati@postech.ca

Date: Tue, 3 Oct 2000 08:20:49 -0400
From: "Lofstead, Jerry" <Jerry.Lofstead@hboc.com>
To: "'mgoins@usa.net'" <mgoins@usa.net>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80631] RE: How do you get scratches out of lexan
Message-ID: <95CB658F8515D211B84B00805FA728660332439B@atlexc02ntms.hboc.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="windows-1252"

"BonAmi" and toothpaste are also great for grinding crystals to a new freq.

Jerry
W3CDE

-----Original Message-----
From: M Goins [mailto:mgoins@usa.net]
Sent: Monday, October 02, 2000 11:13 PM
To: Low Power Amateur Radio Discussion
Subject: How do you get scratches out of lexan

Toothpaste will usually do it, if the scratches are small. It's very mildly abrasive and nearly any brand should work fine. Use a soft cloth - paper towels have wood fibers in them.

mike
wb5yjx

k2#621

Get free email and a permanent address at <http://www.amexmail.com/?A=1>

Date: Tue, 3 Oct 2000 07:33:31 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'kc8aon@juno.com'" <kc8aon@juno.com>, Low Power Amateur Radio Discussion
<qrp-l@Lehigh.EDU>
Subject: [80632] RE: Soldering old antenna wire
Message-ID: <E78D8A9D6762D411B5440008C791D4AA199B78@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

Muratic acid is **also** used for giving swimming pools an "acid bath".
It's available in smaller sizes than a gallon from swimming pool supply
houses, and as Rick said, it **is** very inexpensive and must be diluted
before using.

A dilute solution of Muratic acid is also an easy way to remove rust
stains and oil stains from your concrete driveway and garage floor.
Pour it (the diluted solution) on the stain let it sit there for a bit, and
then move it around with a stiff-bristled palmyra brush (you know,
one of those brooms you use to clean up a factory floor) and then
flush it thoroughly with a water hose.

Karl K - W8TIF
McKinney, Texas

<snip>
> -----Original Message-----
> From: Rick McKee [SMTP:kc8aon@juno.com]
> Sent: Monday, October 02, 2000 5:47 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Soldering old antenna wire
>
> Try soaking the end of the wire (several inches of it) in a mild acid
> bath. Muratic acid like they use at radiator repair shops would work,
> but you need to dalute it with water first. I think you can still get
> the stuff at the bigger auto parts stores like NAPA. <snip>

Date: Tue, 3 Oct 2000 06:49:28 -0600
From: "Steve/n0tu" <n0tu@webaccess.net>

To: "QRP-L" <QRP-L@lehigh.edu>, <rfoltz@turbonet.com>
Subject: [80633] QRPp & QRPpp
Message-ID: <008e01c02d38\$5ea0f840\$d208710f@sg2939h.col.hp.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Randy ,

I see you've discovered the thrill of extreme QRP! CONGRATES on the JA!!

Since I got my OHR WM-2 I've been having a blast cranking my pwr down to as low as I can go!! Last night on the SP I work N7XJ - Bob in UT w/only 20Mw!! I couldn't believe he came back to my first call! BUT He was 599+ here so it was very good path! But I've worked about three or four states just playing around with 5 - 20Mw during QSOs asking stns to listen for my QRPpp signal and most can copy Q5 but had only one entire QSO at this level and that was last night w/N7XJ Bob - FUN stuff! Think of doing the K2 mod to have better/finer adjustments below 100Mw range.

But so far just having fun with as little as possible. And your right it doesn't take huge antennas. My antenna is an inverted vee @ 44' - on top of my wooden mast with fiberglass fishing pole holding the apex of the vee at 44' fed w/300 ohm twin lead. At least till the winter winds decide otherwise!

CUL Steve/n0tu - "LESS is really ALOT more!"

-----Original Message-----

From: Randy Foltz <rfoltz@turbonet.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Date: Monday, October 02, 2000 10:17 PM
Subject: Spartan Sprint @ 100 mW

>I worked the October Spartan Sprint at 100 mW with a K2 and
>a GAP Titan antenna. From here in ID I made only 6
>contacts, but they were worth it! The farthest was with
>Carter, N3A0, in PA for 21,090 miles per watt. Other 20 m
>contacts were with Doc, K0EVZ, in ND for 7,660 miles per
>watt, Mert, W0UFO, in MN for 11,510 miles per watt, and
>Brian, K7RE, in AZ for 9,420 miles per watt. Before the
>contest was over I made two 40 m contacts. One with Russ,
>AA7QU, for 3,230 mpw and one with Wes, W7ZOI, for 2,900
>mpw. Each of these operators have great ears!
>

>At 100 mW you don't work everyone you hear. It seemed that

>stations on the edges of the activity had better success.
>
>Tonight increased my state total to 8 with 2 provinces since
>the first of September using the GAP and 100 mW.
>
>Over the weekend I worked JE1REU on 10 m for 50,200 miles
>per watt. He gave me a 559, but maybe he was just
>generous. At least I didn't have to repeat things.
>
>It doesn't take beams on tall towers to work a few with 100
>mW. (But it helps!)
>
>73,
>Randy
>K7TQ
>Moscow, ID
>

Date: Tue, 03 Oct 2000 08:51:36 -0400 (EDT)
From: "John L. Sielke" <jsielke@pobox.com>
To: fpqrp-l@mpna.com, qrp-l@lehigh.edu, soc@qsl.net, njqrp@njqrp.org
Subject: [80634] Lighthouse Christmas Lights Event
Message-ID: <XFMail.001003085136.jsielke@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Just a preliminary heads up. The Amater Radio Lighthouse Association is sponsoring a "Lighthouse Christmas Lights Event" from December 18, 2000 through January 2, 2001. This is not a contest, but an opportunity to work both Lighthouses, and memebers of ARLHS, for the beautiful certificate made up by ARLHS. You need only 5 member stations, or 10 lighthouses for the certificate.

In conjunction with this, I will be operating W2L from Historic East Point Lighthouse on Delaware bay during the event. I will be on QRP CW as well as SSB (yyeeecch!). Schedule of operation will be sent along later, but will certainly try to be on all weekends of the event, and possibly during the week also. Will be using the following frequencies: (+/- QRM, etc)

CW:

3530, 7030, 14,030, 21,030, 28,030. (Look for W2L FIRST on 20 or 40 CW)

SSB: 3,970, 7270, 14,270, 21,370, 28,370. (If band is open will be on 10SSB FIRST)

Besides the certificate, will have special W2L East Point Lighthouse QSLs.

I am trying to convince the ARLHS folks that QRP CAN make a successful Special Events station, so will be looking for you all.

John W2AGN/W2L

Date: Tue, 3 Oct 2000 09:01:11 -0400 (EDT)
From: Peter Wotherspoon <peter.c.wotherspoon@Hydro.ON.CA>
To: qrp-l@lehigh.edu
Subject: [80635] TRC-57
Message-ID: <Pine.GSO.4.10.10010030855320.24469-100000@strong.hydro.on.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi All

The spartan Sprint was a blast!
The SW40+ (that my spouse built) worked like a dream.
My question:
need a schematic for the TRC-57
It's already been converted to HAM.
Problem is the transmit is off from the receive.
I also want to increase the "clarifier" range, and
be able to separate the rx from the xmit tuning.

Any suggestions would be most welcome.
I hit Cuba and Wyoming from the middle of the north side of
Lake Ontario (Port Hope) last night about 23:00 Z with it
using a crap antenna

Peter
Ve3GYY

Date: Tue, 3 Oct 2000 09:27:15 EDT
From: Drbob92031@aol.com
To: qrp-l@lehigh.edu
Subject: [80636] Has anyone tried this?
Message-ID: <5a.b7559df.270b38b3@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Content-Transfer-Encoding: 7bit

This must be old stuff but I have been thinking of using two (2) metal tape measures for a dipole. The kind the you can carry on your belt and comes in any where from 15 feet to 35 feet in length. The concept is to pull out enough to make 1/2 the dipole from each case.

Any thoughts please. It sounds to easy to be good.

72/73 de... Bob WA2EAW

Date: Tue, 03 Oct 2000 06:37:31 -0700
From: Bill Jones <kd7s@psnw.com>
To: k7qo@primenet.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80637] Re: WTB: NE4040 kit unbuilt
Message-ID: <39D9E11B.653B72E6@psnw.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Chuck,

If you aren't able to find a kit, you can order the PC board from Far Circuits. It is listed as "SINGLE BOARD SUPERHET QRP TRANSCEIVER 40M OR 30 M BY NN1G". Most of the parts (especially the variable caps) are available from Dan's Small Parts and Kits. I scratch-built an NE4040 a while back using this approach. It worked out well.

Chuck Adams wrote:

>
>
>
> Gang,
>
> Some of you have this kit unbuilt and have others of more
> recent vintage to build anyway. I'd be interested in getting
> one of these unbuilt.

Bill Jones - KD7S <><
Sanger, California
<http://www.psnw.com/~kd7s/>

Date: Tue, 3 Oct 2000 06:42:34 -0700 (PDT)

From: Gil Kellersman <gilkell113@yahoo.com>
To: qrp-1@Lehigh.EDU
Subject: [80638] MFJ 9410X 10M SSB for sale
Message-ID: <20001003134234.23516.qmail@web2304.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Have as new MFJ 9410X 10 meter QRP/SSB tranceiver for
sale. Comes with mic, manual and original carton.
\$175. MFJ 4110 portable AC. \$35. Gil, K1RRR

Do You Yahoo!?
Yahoo! Photos - 35mm Quality Prints, Now Get 15 Free!
<http://photos.yahoo.com/>

Date: Tue, 03 Oct 2000 09:58:55 -0400
From: KW1ND Mike <kw1nd@megalink.net>
To: qrp <qrp-1@Lehigh.EDU>
Subject: [80639] What's an RF VTVM?
Message-ID: <4.3.2.7.2.20001003095405.00a9a680@mail.megalink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Good morning, gurus. A friend of mine is working on replacing the finals
in a Kenwood TS-520, and can't get things to work right; specifically,
what's an RF VTVM? (And, yes, he does run it QRP from time to time).

>Have you heard of an RF VTVM? It requires such an animal to
>neutralize the tubes in my Kenwood but I don't have a clue whether my
>VTVM qualifies as an "RF VTVM" or not.
>
>I hooked up the VTVM to the dummy load as required but I don't get any
>signal to null. The VTVM is connected because I can send CW or SSB and
>the meter swings as you might expect it to but when it comes to turning
>off the Screen Grid switch and tuning for a minimum reading, there is
>nothing to minimize.

73,

Mike Boice, KW1ND
Lisbon Falls, Maine FN44xa

Date: Tue, 3 Oct 2000 10:08:47 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [80640] Kenwood Station For Sale
Message-ID: <020b01c02d43\$853e8660\$70075cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

I have the following for sale.

Clean rig, works well and owned by a non-smoker.

Please e-mail me direct if you are interested.

I will consider selling this as a package for \$1000

or individually. All prices are negotiable.

- 1 - Kenwood TS-450SAT with 2.4k filter for SSB & manual \$800
- 2 - Kenwood PS-430 20 Amp Power Supply \$175
- 3 - Kenwood SP-23 Speaker \$30
- 4 - Kenwood MC-85 Microphone Console \$95

Note:

When I have my K2 completed I will be selling my Kenwood TS-50.

Thanks

Ron de WB3AAL
wb3aal@fast.net

Date: Tue, 3 Oct 2000 10:21:41 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <kw1nd@megalink.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80641] Re: What's an RF VTVM?
Message-ID: <002001c02d45\$474b89a0\$2101a8c0@insydesw.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I see this a lot with modern equipment...

People are so used to 'today' with the digital meters that have a fairly constant and high input impedance they forget that in the 70's and 80's, MOST meters were a specific impedance per sensitivity. And it wasn't high, compared to most of the tube circuits.

VTVM stood for Vacuum Tube Volt Meter.

Some of the real popular meters back then were the Radio Shack Range Doublers, which I think was two versions. A cheap one at 10K/V and a good one at 50K/v. That meant if you were on the inexpensive unit on say a 10v Scale, the meter impedance was 100K. A 100v scale meant 1Meg. The 'Range Doubler' meant the 10v scale would be a 5v scale if you flipped the switch, but the impedance was halved. Neat meters. But if you went to look at a voltage on a tube circuit, you may be dealing with a load impedance of many meg, and a couple of hundred K of source impedance. Put a meter in the circuit to measure it, and the meter suddenly loaded the circuit with 50K to ground, well, not good, not good at all.

To do most hobby work, you needed at LEAST a 100K/v meter. And to do any serious tube service work or alignment, you needed a VTVM or what was called a "FET VOM", which was just a FET version of the VTVM. These would have MANY meg of input impedance. I seem to recall 10Meg as pretty common. Loading of a tube circuit was pretty minimal with one of these guys.

When you were talking about RF VTVM meters, I believe that usually meant a 'probe' that had a diode rectifier in it. A lot of the VTVMs from that era had the standard 'banana jack' attachments on the front, but some also had an Amphenol Coaxial connector that was used to screw on a coax to an RF probe.

Mike

> Good morning, gurus. A friend of mine is working on replacing the
finals

> in a Kenwood TS-520, and can't get things to work right; specifically,
> what's an RF VTVM? (And, yes, he does run it QRP from time to time).
>
> >Have you heard of an RF VTVM? It requires such an animal to
> >neutralize the tubes in my Kenwood but I don't have a clue whether my
> >VTVM qualifies as an "RF VTVM" or not.
> >
> >I hooked up the VTVM to the dummy load as required but I don't get
any
> >signal to null. The VTVM is connected because I can send CW or SSB
and
> >the meter swings as you might expect it to but when it comes to
turning
> >off the Screen Grid switch and tuning for a minimum reading, there is
> >nothing to minimize.
>
> 73,
>
> Mike Boice, KW1ND
> Lisbon Falls, Maine FN44xa

Date: Tue, 3 Oct 2000 09:29:31 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'Drbob92031@aol.com'" <Drbob92031@aol.com>, Low Power Amateur Radio
Discussion <qrp-l@Lehigh.EDU>
Subject: [80642] RE: Has anyone tried this?
Message-ID: <E78D8A9D6762D411B5440008C791D4AA199B7E@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

Yes, Bob, using tape measures for dipole elements is indeed "old stuff" --
Collins did it years ago as an adjunct to their "tape dipole", but the
stainless
steel tape reels were at the center insulator point (the housing actually
provided
a type "N" connector *and* the insulator for the central feedpoint). Later,
Hy-Gain marketed a tape dipole for the "civilian market".

It indeed is "..... too easy to be good... ", because those tape dipoles
were expensive!
Uh-huh! Expensive because of the design and manufacturing costs for that
combined
center insulator and tape-storage container that would work reliably time

after time after
time!

I believe the Arizona sQRPions (sp?) had a one-legged version of this, using a chalk-line housing for an end-fed wire, but other than the commercial versions mentioned above, implementing a successful re-windable tape dipole is difficult at best (in my not-so-humble opinion!).

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----
> From: Drbob92031@aol.com [SMTP:Drbob92031@aol.com]
> Sent: Tuesday, October 03, 2000 8:27 AM
> To: Low Power Amateur Radio Discussion
> Subject: Has anyone tried this?
>
> This must be old stuff but I have been thinking of using two (2) metal
> tape
> measures for a dipole. The kind the you can carry on your belt and comes
> in
> any where from 15 feet to 35 feet in length. The concept is to pull out
> enough to make 1/2 the dipole from each case.
> Any thoughts please. It sounds to easy to be good.
> 72/73 de... Bob WA2EAW

Date: Tue, 3 Oct 2000 10:43:03 -0400
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <Drbob92031@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [80643] Re: Has anyone tried this?
Message-ID: <005d01c02d48\$44a604c0\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I don't know about HF, but I seem to recall that the early satellites use 'tape measure tape' as antennas. It would roll up nice and snug, and when uncovered 'pop' put pretty reliably into position in space.

Mike

> This must be old stuff but I have been thinking of using two (2) metal

tape

> measures for a dipole. The kind the you can carry on your belt and comes in
> any where from 15 feet to 35 feet in length. The concept is to pull out
> enough to make 1/2 the dipole from each case.
> Any thoughts please. It sounds to easy to be good.
> 72/73 de... Bob WA2EAW
>

Date: Tue, 3 Oct 2000 10:52:16 +0100
From: "Bob Duckworth" <wb4mnf@atl.org>
To: <Karl.Kanalz@allegiancetelecom.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80644] Re: Has anyone tried this?
Message-ID: <200010031448.KAA12405@hat-trick.atl.org>

Using the 'flex weave' antenna wire and 2 x chalk line spools with a 'standard' center insulator worls well. Some paint marks on the wire will let you spool out the right amount.
Or, you can do a G5RV and just reel it all out, every time.
The wire holds up pretty well. However, if you can find some surplus phosphor-bronze (sp) braided wire, it will last longer than you will.
I like a loop antenna but it's a mess to stow.
-bob

Date: Tue, 3 Oct 2000 10:52:27 -0400
From: Robert P Engelman <rengelwb8uoj@juno.com>
To: qrp-1@lehigh.edu
Subject: [80645] Re: How do you get scratches out of Lexan?
Message-ID: <20001003.105228.-3887867.1.rengelwb8uoj@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Doug,

Look for Meguiar's products for a "Plastic Cleaner", and "Plastic Polish". These are two separate items that I use exclusively to clean / remove small scratches from and polish the Lexan windshield on my Harley. I can say that they work GREAT !. I think I got mine from a local body shop / paint supplier. I know also that Meguiar's has a WWW site that I believe has on line shopping.

Hope this helps,

Bob WB8UOJ QRP-L 2019 FPQRP #82
Grafton OH

On Mon, 2 Oct 2000 20:00:04 -0700 ki6ds@dpol.k12.ca.us (Hendricks, Doug) writes:

> Does anyone know how to get fine scratches out of lexan? Will a fine
> metal
> polish work?? Thanks, Doug, KI6DS
>

YOU'RE PAYING TOO MUCH FOR THE INTERNET!

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 02 Oct 2000 15:43:09 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>
Subject: [80646] Contest: ARS Spartan Sprint Results K7RE
Message-ID: <39D90F7D.F9A9748@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Contest: ARS Spartan Sprint

Category:_____Tubby_____ Mode:_CW_____ Power: 5 W

Callsign of Operator: K7RE

Exchanged Information: K7RE RST AZ 5W

Hours of Operation:_____2.0_____ Hours.

Band	QSOs	Points	Mult's
------	------	--------	--------

160	0	0	0
80	0	0	0
40	5	5	5
20	45	45	28
15	0	0	0
10	0	0	0
Totals	50	50	33

Skinney Division? No Station Weight (decimal format) _____LBS
 Tubby Division? Yes
 QSO's/Weight = _____

Club or Team Name: Aluminum Kings

Comments: Very nice turnout. High points:
 Working our very own Russ, AA7QU with a whopping signal.
 Working Randy, K7TQ with his 100 mw from ID.
 Working KH6B HI on 20M.
 Working AL7OM in AK, who is becoming a regular in my log.
 Working Brucew, N7CEE, a fellow AZ station, about 100 Mi away on 20M
 with a nice signal too.
 Of course the usual suspects are always a pleasure to put into the log.
 Thanks to Russ and "ganguel" for still another monthlu fun event.

Date__October 2 2000_ SignatureBrian D. Kassel__ Call_K7RE

 Date: Tue, 3 Oct 2000 09:10:09 -0600
 From: "Rod Cerkoney" <n0rc@hotmail.com>
 To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
 Subject: [80647] Re: How do you get scratches out of Lexan?
 Message-ID: <0E13XAarwgAP93s25UE000006d5@hotmail.com>
 MIME-Version: 1.0
 Content-Type: text/plain; charset="iso-8859-1"
 Content-Transfer-Encoding: 7bit

Well the site is back up today but there is no mention of products for
 Glass. So I'd check with motorcycle shops and FBO's as others have
 mentioned.

73, Rod N0RC
 Ft Collins CO

----- Original Message -----

From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, October 03, 2000 2:09 AM
Subject: Re: How do you get scratches out of Lexan?

> Doug, Bob, et.al.
>
> The spelling is actually: Meguiar's
>
> They do have a website: <http://www.meguiars.com/> but it seems to be
> down tonight, it responds to pings however.
>
..

Date: Tue, 3 Oct 2000 09:28:33 -0600 (MDT)
From: "Karl F. Larsen" <k5di@zianet.com>
To: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80648] RE: Has anyone tried this?
Message-ID: <Pine.LNX.4.10.10010030918080.1188-100000@cannac.ampr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I took my Argonaut 509 back packing with my Boy Scout Troop 66
Sunshine on 50 mile hikes 6 days in the Gila Wilderness. My antenna was
number 22 hookup wire in 2 spools. The center was a piece of perf board
and the feedline was RG-218 with an RCA connector on the radio end. The
hookup wire was measured for 75 meters full length and then at the 40
meter length I put a cable tie and chopped off all but the lump. I had the
same thing at 20, 15 and 10 meters.

I held schedules with hams in Las Cruces with phone patches using
75 meter ssb. Many homesick scouts got to talk to mom. This was often the
first time a new boy was away from home for 6 days. It really helped and
after dark I would roll the antenna up to 40 and work some cw. Got out
fine.

On Tue, 3 Oct 2000, Kanalz, Karl wrote:

> Yes, Bob, using tape measures for dipole elements is indeed "old stuff" --
> Collins did it years ago as an adjunct to their "tape dipole", but the
> stainless
> steel tape reels were at the center insulator point (the housing actually
> provided

> a type "N" connector *and* the insulator for the central feedpoint). Later,
> Hy-Gain marketed a tape dipole for the "civilian market".
>
> It indeed is ".... too easy to be good... ", because those tape dipoles
> were expensive!
> Uh-huh! Expensive because of the design and manufacturing costs for that
> combined
> center insulator and tape-storage container that would work reliably time
> after time after
> time!
>
> I believe the Arizona sQRPions (sp?) had a one-legged version of this, using
> a chalk-line
> housing for an end-fed wire, but other than the commercial versions
> mentioned above,
> implementing a successful re-windable tape dipole is difficult at best (in
> my not-so-humble opinion!).
>
> Karl K - W8TIF
> McKinney, Texas
>
> > -----Original Message-----
> > From: Drbob92031@aol.com [SMTP:Drbob92031@aol.com]
> > Sent: Tuesday, October 03, 2000 8:27 AM
> > To: Low Power Amateur Radio Discussion
> > Subject: Has anyone tried this?
> >
> > This must be old stuff but I have been thinking of using two (2) metal
> > tape
> > measures for a dipole. The kind the you can carry on your belt and comes
> > in
> > any where from 15 feet to 35 feet in length. The concept is to pull out
> > enough to make 1/2 the dipole from each case.
> > Any thoughts please. It sounds to easy to be good.
> > 72/73 de... Bob WA2EAW
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Tue, 3 Oct 2000 11:55:04 EDT
From: K5KW@aol.com
To: qrp-l@lehigh.edu

Subject: [80649] Re: How do you get scratches out of Lexan? (Meguiar's Products)
Message-ID: <f5.3402d42.270b5b58@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 10/3/00 9:56:30 AM Central Daylight Time,
rengelwb8uoj@juno.com writes:

<< Look for Meguiar's products for a "Plastic Cleaner", and "Plastic Polish". >>

The above products are approved for plastic "windshields" on airplanes, too.
I've used 'em on my Cessna Skyhawk for years with good results.

These cleaners and polishes (Meguiar's) are sold by many FBO's
(Fixed Base Operators) at local airports.

One caution for those using *any* polish on plastic windscreens,
windshields, and probably Lexan, too. First, pour clear water over
the windshield and wipe it down with the flat of your hand only.
This removes the dust and other grit from the plastic. If you don't
wash it first, the polish and even the cleaner will just grind the grit
in and the cleaner-polish will do more harm than good.

72,

Don, K5KW

Date: Tue, 3 Oct 2000 11:49:02 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: <mprati@postech.ca>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [80650] RE: Any QRP enthusiasts at the Rochester Hamfest ?
Message-ID: <000001c02d51\$74537000\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I hope to be there. If there's enough interest in a meeting, I can bring my
Lexan-packaged 2N2/40 and also my HBR-2Q homebrew 20-M SSB transceiver for
show-and-tell.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of Maxime Prati

Sent: Tuesday, October 03, 2000 7:42 AM

To: Low Power Amateur Radio Discussion

Subject: Any QRP enthusiasts at the Rochester Hamfest ?

Hi all !

Anybody go to the Rochester hamfest this week-end ?

I will be glad to have infos about QRP activities, meeting, get together will be appreciated !

73 de VE2HAC

"Eagles soar, but weasels never get sucked into jet engines."

Maxime Prati
Embedded Systems Development
Position Technology
www.postech.ca
mprati@postech.ca

Date: Tue, 03 Oct 2000 10:47:32 -0500
From: Lew Paceley <lew@paceley.com>
To: kw1nd@megalink.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80651] Re: What's an RF VTVM?
Message-ID: <009101c02d51\$3e49d1c0\$0332a8c0@roland.swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Mike,

To make the adjustments to neutralize your friend's finals requires a very sensitive AC voltmeter capable of operating at 21.300 MHz, assuming your buddy's TS-520 neutralization procedure is similiar to my TS-820S. Most voltmeters are unable to accurately measure high frequency AC. The easiest way to get around this is change the RF to something you can measure - DC! The quickest solution is to build a diode-based RF probe for your VTVM/DVM, assuming that your VTVM/DVM has the requisite 10/11 Mohm input impedance.

It's a <\$5 one trip to Radioshack kinda project even if your junkbox is bare. The ARRL Handbook has plans as does the NJQRP club:
<http://www.njqrp.org/atlanticon/rfprobe.html>
Remember to use a germanium diode when you build the probe for maximum sensitivity. Oh, and remember to disconnect the RF probe before you run high power into the dummy load or your diode will sadly give up it's life for your mistake...been there, done that.

Good luck and

72/73,
Lew
N5ZE

PS - The Kenwood 520/820s can be easily adjusted for QRP operation...drop me a mail if your friend is interested.

----- Original Message -----

From: "KW1ND Mike" <kw1nd@megalink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, October 03, 2000 8:58 AM
Subject: What's an RF VTVM?

> Good morning, gurus. A friend of mine is working on replacing the finals
> in a Kenwood TS-520, and can't get things to work right; specifically,
> what's an RF VTVM? (And, yes, he does run it QRP from time to time).
>
> >Have you heard of an RF VTVM? It requires such an animal to
> >neutralize the tubes in my Kenwood but I don't have a clue whether my
> >VTVM qualifies as an "RF VTVM" or not.
> >
> >I hooked up the VTVM to the dummy load as required but I don't get any
> >signal to null. The VTVM is connected because I can send CW or SSB and
> >the meter swings as you might expect it to but when it comes to turning
> >off the Screen Grid switch and tuning for a minimum reading, there is
> >nothing to minimize.
>
> 73,
>
> Mike Boice, KW1ND
> Lisbon Falls, Maine FN44xa
>

Date: Tue, 3 Oct 2000 10:24:25 -0600 (CST)

From: Bruce Rattray <rattray@gpfn.sk.ca>
To: QRP-Canada <qrp-canada@lists.gpfn.sk.ca>, Low Power Group <qrp-1@LeHigh.EDU>
Subject: [80652] FOX - Winter Hunt Teams -
Message-ID: <Pine.LNX.3.95.1001003102031.27449B-100000@neale.gpfn.sk.ca>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

...15 Teams so far.....come and join the fun!

The Raiders of the Lost RF -
Mary - NA6E- #1779
Fred - VE3FAL
Rob - VE6JAZ
Earl - VA6RF - #1076
Bruce- VE5RC - #88

The Big Dawgs -
N1FN - ET
N5TW - Tom
WJ1R - Larry
NW7DX- Ben - #1892
N6WG - Bob

The ScQRPions -
Floyd - NQ7X
Brian - K7RE
Conard- WS4S
Chuck - K7QO
Bob - NK7M

The Flying Pigs #1 -
Diz - W8DIZ - #1998
Rick - WB6JBM - #1118
Dan - N8IE - #1404
Brian- KB9BVN - #1540
Dave - KB5MHS - #2176

The Cheeseheads -
Brian - AE9K
Jerry - N9AW
Rick - NK9G
Lou - W9XU
Jim - WA9TZE

The Houston Hounds -
Bill - K5ZTY
Bill - W5SB
Terry- KQ5U
Dan - KK5LD
Danny- WA5OJE

The New England Hunt Club -
Aron - N1ODL - #1326
John - K1JD - #1945
Jim - KC1FB - #29
Joel - K1QM - #337
John - KB1ENS - #2150

The Swamp Rats -
Paul - AJ4Y - #1795
Jack - K4BYF
Pete - NV4V - #1721
Fred - W2XN
Tom - N1TP - #1317

The Buffalo Wings -
Mark - K2QO - #314
Dave - AA2PF - #301
Howard- K2UD - #1535
Bob - K2VNM - #735
Scott - AC3A -

The Bayou City Brass Pounders -
George - K5VUU - #1343
Bob - N5ET - #123
Henry - W5HNS - #178
OJ - K10J - #732
Bruce - N1LN - #2049

The Flying Pigs#2 -
Andy - N8MX
Kent - KB9VZS
Ron - N8VAR - #263
Kenn - KM7KEN - #2254
Andrew - AC7CF - #2180

The Fox Terrors -
Tim - K5OI
Don - K5AAR
Karl - K5DI
Dave - W0CH
Doc - K0EVZ

The Cajun Thunder -
Joel - KE1LA
John - K5JS
Wayne - K5EOA
Jim - N5IB
one more coming

The Underdogs -
Dan - N4ROA - #970
Roy - AB7CE - #1494
Art - KB7WW - #290
Glenn - WA7SPY - #2214
Ron - KI0II - #928

The VA Hams + OLW -
Mike - KT4FJ - #1443
Doug - W4IDW - #2263
Skip - K0YWD - #2003
John - W4IM - #1691
Paul - W2RIA - #2266

...still accepting Teams of 5 members each up until the day before the first hunt....please e-mail me direct....and of course let me know of any corrections I need to apply...thank you...72 - Bruce(VE5RC+VE5QRP)

Date: Tue, 3 Oct 2000 11:26:17 -0500
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'lew@paceley.com'" <lew@paceley.com>, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80653] Neutralizing a PA (was: What's an RF VTVM?)
Message-ID: <E78D8A9D6762D411B5440008C791D4AA199B82@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

For neutralizing a power amplifier stage, tube or transistor, a diode probe (to detect that r.f.) is essential but it is *NOT* essential that the VTVM (or digital d.c. meter) be "accurate" in the normal sense of

"accuracy".

It (the probe and meter combination) needs only to be sensitive to detecting the *minimum* amount of feed-through r.f. during the neutralization process.

What you're looking for is a NULL in the amount of feed-through r.f., not measure any specific values of r.f. or d.c.

The ARRL Handbook designs for a simple r.f. probe are more than adequate, easily built and very inexpensive to implement!

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----

> From: Lew Pacey [SMTP:lew@paceley.com]

> Sent: Tuesday, October 03, 2000 10:48 AM

> To: Low Power Amateur Radio Discussion

> Subject: Re: What's an RF VTVM?

>

> Hi Mike,

> To make the adjustments to neutralize your friend's finals requires a very
> sensitive AC voltmeter capable of operating at 21.300 MHz, assuming your
> buddy's TS-520 neutralization procedure is similiar to my TS-820S. Most
> voltmeters are unable to accurately measure high frequency AC. The
> easiest

> way to get around this is change the RF to something you can measure - DC!

> The quickest solution is to build a diode-based RF probe for your

> VTVM/DVM,

> assuming that your VTVM/DVM has the requisite 10/11 Mohm input impedance.

> It's a <\$5 one trip to Radioshack kinda project even if your junkbox is

> bare. The ARRL Handbook has plans as does the NJQRP club:

> <http://www.njqrp.org/atlanticon/rfprobe.html>

> Remember to use a germanium diode when you build the probe for maximum

> sensitivity. Oh, and remember to disconnect the RF probe before you run

> high power into the dummy load or your diode will sadly give up it's life

> for your mistake...been there, done that.

>

> Good luck and

>

> 72/73,

> *Lew*

> N5ZE

>

> PS - The Kenwood 520/820s can be easily adjusted for QRP operation...drop
> me

> a mail if your friend is interested.

>

Date: Tue, 3 Oct 2000 12:23:58 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: "'Gary M. Diana, Sr.'" <gary.diana@kodak.com>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [80654] RE: Any QRP enthusiasts at the Rochester Hamfest ?
Message-ID: <000101c02d56\$55ae5660\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, New Hampshire.

-----Original Message-----
From: gmdiana@toolchest [mailto:gmdiana@toolchest] On Behalf Of Gary M. Diana, Sr.
Sent: Tuesday, October 03, 2000 12:11 PM
To: ai2q@ispchannel.com
Subject: RE: Any QRP enthusiasts at the Rochester Hamfest ?

Alex -

Which rochester would this be?

new hampshire?

73, gary n2jgu
nr rochester ny

Date: Tue, 03 Oct 2000 12:40:33 EDT
From: Dean W Manley <kh6b@juno.com>
To: qrp-l@lehigh.edu
Cc: kh6b@juno.com
Subject: [80655] Re: Contest: ARS Spartan Sprint Results
Message-ID: <20001003.064011.5463.0.kh6b@juno.com>

Contest: ARS Spartan Sprint
KH6B Hilo Hawaii

Log: (10m) W6ZIP, K6PZB, (15m) K6PZB, KH6AFS, KD7CTF,
(20m) N5IW, K7RE, AA7QU, K0EVZ, W4NJK, W3KC, AA4XX,
W7JJ, AF5Z, KI8AF, AB5PC, AE6N, KK6MC/5, KA8LLE, WD7Y,
K6PZB, K5LN, VE7FGN, KI0II.

Nice to work W3KC and AA4XX "back east". N3A0 tried to hear me, but only got a "SRI" :-(Also tried to work Mac AF4PS, but "no go" this time. Worked John K6PZB on three bands. At times, K6PZB was S9+15 dB on 20m. Vy fb John. Also, very rare for me to work HI during the SP. Sam KH6AFS on 15m is 10 miles from me. Only heard two signals in the 40m QRN. So no attempt was made to get on 40 this time. My goal is to work K6PZB on 5 or more bands during the monthly SP.

Mahalo nui loa. Thanks for another nice First Monday Event.

Aloha,
Dean KH6B
Hilo Hawaii

Date: Tue, 03 Oct 2000 08:47:41 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: Drbob92031@aol.com, "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [80656] Travel Antenna - Measuring tapes (tape measures) de AL7FS
Message-ID: <39DA0DAD.B9B61A04@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Bob,

Here are some old messages of mine from the archives of QRP-L. I changed the subject line so it can be found in future archives. This is just one way to do this. I am sure there are many others. I have also seen this done with leather instead of aluminum. The SO-239 was a chassis mount with a nut and washer to hold it in the leather.

73, Jim

--

Jim Larsen, AL7FS, Anchorage, Alaska
QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>
QRP ARCI #6754 Check out <http://www.qrparci.org/>
<http://www.qsl.net/al7fs/> <mailto:al7fs@pobox.alaska.net>

out in the
motorhome. I have one made out of two 50 foot tape measures. You can
remove some
of the screws (alternate corners) and fasten the two tape measures
together with
longer bolts. Then you just fashion a method to mount the S0239. Mine
is made of
leather. I have seen a better model made of bent aluminum with nice
camping
grommets banged into the hang-up hole. The two alligator clips come off
the S0239
with quality wire and once the length of each side of the antenna is
correct, you
clip the alligator clips onto the edges of the tape. Not the flat.
Also, a piece
of leather (or whatever) keeps the thing from unwinding. Good for 40-100
(maybe
even 6 and 2) meters. A bit of thought will allow a creative solution
to all
aspects of this one.

The formula for the length to use (approx.) is:

$((468 / \text{freq in MHz}) - 1.5) / 2 = \text{length for one side of the tape measure.}$

e.g., for 7.040 $((468 / 7.040) - 1.5) / 2 = 32.5 \text{ feet per side.}$

This seems to work well enough to use without tweaking if I have no
tuner. Your
mileage may vary and a bit of playing around on one weekend will give
you all the
data you need to figure out your own formula if it needs to be
different.

These tape measure antennas work fine but do not like really severe
winds. I used
one out on the Iditarod Trail when I was the radio operator for the
checkpoint in
Shaktoolik (check it out on a map). A full blown Arctic storm finally
stressed
the metal until it broke. (Yes, I had several backup antennas but
putting them up
in snow and a wind I could not stand up in was another story.)

Good luck,

73, Jim, AL7FS

Anchorage, Alaska

Date: Tue, 3 Oct 2000 12:45:12 -0400
From: "AI2Q Alex" <ai2q@ispchannel.com>
To: "'Jim Larsen AL7FS'" <al7fs@pobox.alaska.net>
Cc: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [80657] RE: Lexan-packaged 2N2/40
Message-ID: <000001c02d59\$4cbf0420\$5c32a7d0@ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes Jim, but they're early photos and don't show the completed set. However, take a gander at http://www.qsl.net/ka1axy/AI2Q/ai2q_20.htm to see the preliminary photos of the circuit boards.

73, AI2Q, QRP-L #687

-----Original Message-----
From: Jim Larsen AL7FS [mailto:al7fs@pobox.alaska.net]
Sent: Tuesday, October 03, 2000 12:38 PM
To: ai2q@ispchannel.com
Subject: Lexan-packaged 2N2/40

Do you have any pictures of your rig online? Sounds very interesting.

Been through your country twice. I took the slow road and the back roads as I had a whole week to kill between technical classes in MA.

73, Jim, AL7FS--
Jim Larsen, AL7FS, Anchorage, Alaska
QRP-L CD Ver. 3.1 available: <http://www.qsl.net/al7fs/QRP-CDver3.htm>
QRP ARCI #6754 Check out <http://www.qrparci.org/>
<http://www.qsl.net/al7fs/> mailto:al7fs@pobox.alaska.net

AI2Q Alex wrote:

>
> I hope to be there. If there's enough interest in a meeting, I can bring my
> Lexan-packaged 2N2/40 and also my HBR-2Q homebrew 20-M SSB transceiver for
> show-and-tell.

>

> Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

Date: Tue, 3 Oct 2000 10:18:22 -0700
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: <qrp-1@lehigh.edu>
Subject: [80658] Getting Scratches out of Lexan
Message-ID: <01c02d5d\$ef34d780\$330b0d0a@dhendricks>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, last night I posted to the list a query about how to get scratches out of Lexan. The reason was that some of the covers for the BLT tuners (which are made out of Lexan) got scratched in shipping. I had an email asking if I knew how to get them out. I didn't but I knew exactly where to go for the answer. Ok guys, all of you who have BLT's will know how to get the scratches out of your covers now, thanks to the generous response of all of the experts here on qrp-1. Man I love this reflector.

Here is a summary of the responses:

David Adams: Doug,
There are several polishes out which are designed specifically for removing scratches from glass and lexon. Mirror glaze comes to mind. We used it to buff up the lexon isolators of our high-speed clinical cell sorters...works well and home depot carries it.

Trevor Jacobs: Hi Doug,
Try a plastic polish. I had to get scratches out of a lexan tube a few years ago and plastic polish works great. Do a search on the internet for it. Is it clear? The stuff I used is generally used for polishing plastic lenses. Hope this helps, I can't remember the brand name.

Stan Lapointe: I've seen some suggest some of the abrasive tooth pastes. I don't know which brands or if I'd live long enough to polish out any very deep scratches.
Stan

Mike Goins: Doug,
Try toothpaste. It is very mildly abrasive and I've had some luck with it in the past.

James Lawrence: Doug:

Depends on how deep - but I have successfully used toothpaste as well as Brasso metal polish (both of which are very mild abrasives) on very light grazes. These were on various clear surfaces like certain radio dials, watch faces, etc. I can't swear any were Lexan (polycarbonate, I think), which could be a different story. No doubt someone on the list is an expert, but thought I'd mention what I have used.

Bill WJ50: Try jeweler's rouge Dremmel people have it We used it to remove scratches in aircraft windshields.

Steve McDonald: Have you tried toothpaste? I've heard this works as it is mildly abrasive.

Tim Saxman: Doug,
Use Colgates tooth paste.

Bob Evinger: Doug,
McGuires makes polish that does a pretty good job of it. Check your local airport fixed base operator or one of the online aircraft supply houses. Aircraft Spruce and Specialty (washington state)
California Power Systems (san diego)
Wickes aircraft supply (highland, il)
Sorry don't have their web addresses off the top of my head.
McGuires makes a cleaner and a separate polish. It is amazing what it can do to clean up and descotch buggy, dusty aircraft windshields.
What you have can't be any worse than some of those.

Martin Allen: toothpaste!

Glenn MacLean: Doug,
I work on Corporate Jet Airplanes. The windshields are made out of plastic and we have to polish scratches out of the windshields from time to time. We use a very fine sand paper like 1500 grit then 2000 grit. Then we go to a buffing process using a 3M product called Finessit. It is a white very very fine buffing compound, When I get to work tomorrow I will grab some stuff and send you some samples.

Mike Fitzgibbon:
Doug,
I have taken the scratches out of watch "crystals" made from lexan...used dental rouge (which is mainly ferric oxide) and a soft cotton (?) polishing wheel on a grinder...medium speed. This is how they polish gold alloy crowns and bridges...

Tom Monroe: Hello Sir. I'm not sure what the size is of the Lexan object, but in my line of work Eyeglass manufacturing) we use soft buffing wheels and ordinary jewelers rouge for removing scratches from many different types of plastic.

If you have a dremel type tool there are small buffing wheel available that might do the trick. You might possibly get a local jeweler or even an optician with a buffer to do the job for you. Ordinary crayons will do in a pinch for rouge. Don' be afraid to use a lot of rouge.

Mike Yetsko: Years ago motorcycle shops sold a 'polish' for getting scratches out of visors and windshields. It might still be available. It 'sorta' worked.

Mike Manship:

Doug,

I have used a product called Novus Plastic Polish made by Novus of Minneapolis.

I bought the stuff many years ago from a mail order house called Herrington.

Bob Hightower: Brasso works, but it takes time.

Chuck Adams: Doug, et.al.,I would think the same stuff that is used for the removal

of scratches from CDs, both video and audio, would worknicely.

I find the stuff at Hastings Books and I'd think that video stores that rent DVDs would also have the stuffon the shelves.

Anyone with experiences using the stuff chirp up.

Considering the expense of CDs and the fact that any manufacturer of scratch removal compounds would be subject to severe criticism from a large customer base

I'd think that the compound would be safe to use.

It costs about \$8 for a small bottle here in the booniesof Northern Arizona.

Rod Cerkony: Doug, Bob, et.al.The spelling is actually: Meguiar's

They do have a website: <http://www.meguiars.com/> but it seems to be down tonight, it responds to pings however.

As for removing fine scratch it plastic: Meguiar's polish _IS GREAT_!

I used it on my motorcycle helmet visor. It's well known in the motorcycle world for just this purpose. A good motorcycle shop shouldcarry it.

Also try www.google.com searching for Meguiar's there are a number of online dealers that sell Meguiar's products.

Bob Engleman: Doug, Look for Meguiar's products for a "Plastic Cleaner", and "Plastic

Polish". These are two separate items that I use exclusively to clean / remove small scratches from and polish the Lexan windshield on my Harley.

I can say that they work GREAT !. I think I got mine from a local body shop / paint supplier. I know also that Meguiar's has a WWW site that I believe has on line shopping.

Don K5KW, << Look for Meguiar's products for a "Plastic Cleaner", and "Plastic Polish". >>

The above products are approved for plastic "windshields" on airplanes, too. I've used 'em on my Cessna Skyhawk for years with good results.

These cleaners and polishes (Meguiar's) are sold by many FBO's (Fixed Base Operators) at local airports.

One caution for those using *any* polish on plastic windscreens, windshields, and probably Lexan, too. First, pour clear water over the windshield and wipe it down with the flat of your hand only.

This removes the dust and other grit from the plastic. If you don't wash it first, the polish and even the cleaner will just grind the grit in and the cleaner-polish will do more harm than good.

Ok, guys, thanks for the help. Great job! 72, Doug

Date: Tue, 3 Oct 2000 13:18:10 EDT
From: Macstein@aol.com
To: kh6b@juno.com, qrp-1@lehigh.edu
Subject: [80659] Re: Contest: ARS Spartan Sprint Results
Message-ID: <c3.9b2a7d7.270b6ed2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 10/3/00 12:44:50 PM Eastern Daylight Time, kh6b@juno.com writes:

> Also tried to work Mac AF4PS, but
> "no go" this time.

I hate it when this happens. I need to clean my ears.

-MAC-

AF4PS

Date: Tue, 3 Oct 2000 18:58:06 +0200
From: "Hans Kaper" <hanskap@kaper-1.tmfweb.nl>
To: <qrp-l@lehigh.edu>
Subject: [80660] question about foxhunting
Message-ID: <000201c02d5e\$a2df68e0\$e307643e@tm981195>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi,

It's not likely I will be able to participate, (I still do not have the antenna I want< I just have a wire loop up abt 5 meters) but I want to give it a try. I do read all the postings here about foxhunting but I figure it out.

Some foxes seem to work on 14.020, others on 40 meters. In the last call for foxes I read that hunts begin at 06.00 local time AND that the foxes will work afternoons.

I would very much appreciate a warning from one of you about UTC or Z time and frequency of an oncoming foxhunt. (And the date of course) It's not likely I can hear you but at least I would like to listen while the fox is transmitting.

Thanks,

Hans Kaper PA3HGM
BQC 812 QRP-L 2262

Date: Tue, 3 Oct 2000 13:50:37 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "QRP-L Reflector" <qrp-l@Lehigh.EDU>
Cc: "Homebrew Reflector" <homebrew@qth.net>
Subject: [80661] U-310s
Message-ID: <CKEGICNFDIMCEKEDCEHFAEGGEEAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Recently, the U-310 FET was discussed here on QRP-L. I couldn't get down to

my local parts place until today. The going rate (elsewhere) for U-310s seems to be around \$4.00. Ack Industrial Supply (A.K.A. 'Ack Radio') has ~ 10 left (after my purchase) at ~\$2.50 each. They have many older parts as well as regular, new stuff, and even have a website, with online-secure-ordering at: <http://www.acksupply.com/> .

73 Ed Tanton <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.qsl.net/n4xy/>

Date: Tue, 3 Oct 2000 13:03:30 -0500
From: "SAAD MAHAINI" <kb6vir@home.com>
To: <qrp-1@Lehigh.EDU>
Subject: [80662] Re: What's an RF VTVM?
Message-ID: <0b6701c02d64\$3d5f2900\$99610718@plano1.tx.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Speaking of VTVM. I have a nice HP 410B I like to sell. It comes with the direct and RF probe, and copy of the manual. 100% functional and accurate. This is the best there is. \$150 shipped CONUS.

73s Saad N5FF

> ----- Original Message -----
> From: "Mike Yetsko" <myetsko@insydesw.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Tuesday, October 03, 2000 9:21 AM
> Subject: Re: What's an RF VTVM?
>
>
> > I see this a lot with modern equipment...
> >
> > People are so used to 'today' with the digital meters that have a
> > fairly constant and high input impedance they forget that in the

> > 70's and 80's, MOST meters were a specific impedance per
> > sensitivity. And it wasn't high, compared to most of the tube
> > circuits.
> >
> > VTVM stood for Vacuum Tube Volt Meter.
> >
> > Some of the real popular meters back then were the Radio Shack
> > Range Doublers, which I think was two versions. A cheap one
> > at 10K/V and a good one at 50K/v. That meant if you were on
> > the inexpensive unit on say a 10v Scale, the meter impedance
> > was 100K. A 100v scale meant 1Meg. The 'Range Doubler'
> > meant the 10v scale would be a 5v scale if you flipped the
> > switch, but the impedance was halved. Neat meters. But if you
> > went to look at a voltage on a tube circuit, you may be dealing
> > with a load impedance of many meg, and a couple of hundred
> > K of source impedance. Put a meter in the circuit to measure it,
> > and the meter suddenly loaded the circuit with 50K to ground,
> > well, not good, not good at all.
> >
> > To do most hobby work, you needed at LEAST a 100K/v
> > meter. And to do any serious tube service work or alignment,
> > you needed a VTVM or what was called a "FET VOM", which
> > was just a FET version of the VTVM. These would have MANY
> > meg of input impedance. I seem to recall 10Meg as pretty
> > common. Loading of a tube circuit was pretty minimal with one
> > of these guys.
> >
> > When you were talking about RF VTVM meters, I believe that
> > usually meant a 'probe' that had a diode rectifier in it. A lot of
> > the VTVMs from that era had the standard 'banana jack'
> > attachments on the front, but some also had an Amphenol
> > Coaxial connector that was used to screw on a coax to an RF
> > probe.
> >
> > Mike
> >
> >
> > > Good morning, gurus. A friend of mine is working on replacing the
> > finals
> > > in a Kenwood TS-520, and can't get things to work right; specifically,
> > > what's an RF VTVM? (And, yes, he does run it QRP from time to time).
> > >
> > > > Have you heard of an RF VTVM? It requires such an animal to
> > > > neutralize the tubes in my Kenwood but I don't have a clue whether my
> > > > VTVM qualifies as an "RF VTVM" or not.
> > > >
> > > > I hooked up the VTVM to the dummy load as required but I don't get
> > any

> > > >signal to null. The VTVM is connected because I can send CW or SSB
> > and
> > > >the meter swings as you might expect it to but when it comes to
> > turning
> > > >off the Screen Grid switch and tuning for a minimum reading, there is
> > > >nothing to minimize.
> > >
> > > 73,
> > >
> > > Mike Boice, KW1ND
> > > Lisbon Falls, Maine FN44xa
> >
> >
> >
>

Date: Mon, 02 Oct 2000 22:51:44 -0500
From: Robert McAtee <w5tnj@camalott.com>
To: qrp-1@Lehigh.EDU
Subject: [80663] Looking for an SD-20 Pole? New stuff in the SEP WorldRadio...
Message-ID: <3.0.3.32.20001002225144.007dcb70@mail.camalott.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Ed Tanton , N4XY WROTE:

Hello All... new issue of WorldRadio (SEP), and right there on the QRP column pages was an ad for the SD-20 being sold by the publication, no less. URL: <http://www.wr6wr.com> . I seem to recall a recent query here for a source, so I thought I'd mention it here. Price: \$19.95 + postage.

-----SNIP-----SNIP-----
I ordered and received the SD-20 Ed is talking about. It isn't *just* a bamboo fishing pole, It's a real professionally made *carbon fiber* telescoping pole, about 4 foot sections and friction locking. I built the clothes line spools dipole that someone on here talked about. Put appx 70 feet of #25-26 bare wire on each spool. Fabricated a plastic mounting including a PL259 socket. I tried out the SD-20 to see if it would bear the weight. It did all except the final top element. Thus it left me with a 17 plus foot light weight mast, easily put up for a portable dipole. Of course you could just use wire from the bottom to the top and have a vertical. Worth the money. And when the band is out makes a great fishing pole.
==Mac== AG5F, Abilene, TX.

Date: Tue, 3 Oct 2000 11:33:03 -0700

From: "Harvey Laidman" <harvey1@outadaloop.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80664] The Complete DX-er
Message-ID: <NDBBJKNKOKDFMMFFCAHBAEMBCLAA.harvey1@outadaloop.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Is there still interest in this book?
I went into a local parts store and they
have 3 copies in "B-" condition.
Harvey, W8DX

Date: Tue, 03 Oct 2000 13:45:32 -0500
From: Lew Paceley <lew@paceley.com>
To: n4xy@att.net, Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80665] Re: U-310s
Message-ID: <013a01c02d6a\$1c59bbc0\$0332a8c0@roland.swbell.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Ed/All,
Radioshack.com has U310s for \$1.59 each and J310s for \$.38 each. Sometimes
the Radioshack.com prices are quite competitive. Cheers and

72/73,
Lew
N5ZE

----- Original Message -----
From: "Ed Tanton" <n4xy@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, October 03, 2000 12:50 PM
Subject: U-310s

> Recently, the U-310 FET was discussed here on QRP-L. I couldn't get down
> to
> my local parts place until today. The going rate (elsewhere) for U-310s
> seems to be around \$4.00. Ack Industrial Supply (A.K.A. 'Ack Radio') has ~
> 10 left (after my purchase) at ~\$2.50 each. They have many older parts as
> well as regular, new stuff, and even have a website, with
> online-secure-ordering at: <http://www.acksupply.com/> .
>

> 73 Ed Tanton <n4xy@arrl.net>
>
> Ed Tanton N4XY
> 189 Pioneer Trail
> Marietta, GA 30068-3466
>
> website: <http://www.qsl.net/n4xy/>
>
>

Date: Tue, 03 Oct 2000 14:12:38 -0500
From: Brian <brian@iquest.net>
To: pigs <fpqrp-l@mpna.com>, QRP-L <qrp-l@lehigh.edu>
Subject: [80666] W8PIG/9 and the HoosierHills Hamfest
Message-ID: <39DA2FA6.7FC0F9D8@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I don't know about anyone else, but I had a blast.

October 1st was the 39th annual Hoosier Hills Hamfest in Bedford Indiana. This year they had about 850 attendees. This fest is put on by the Hoosier Hills Hamclub and I have to say they did a wonderful job with the arrangements. Camping sites were clean, well lit (too well in many cases), food was cheap and tasty, and they pretty much let us hang wires anywhere we wanted to. This was the first year for them to have forums so I volunteered to put on a QRP forum. Feedback on the forum has been great and all the piggies that came and helped are to be decorated highly and placed high the shelf of appreciation.

Rick Reneau (KB9NDF #-145) and I got there at about 2PM on Saturday to get our camp setup. About an hour later, Diz (W8DIZ #-1) arrived and got his toys out so we could oggle them a bit before stringing up an 80m dipole. Diz drove about three hours to make this event, and his presence went a long way to the success of the QRP Forum the next day.

Rigs for Saturday night included the world famous Multi-Pig on 20 and 40, Rick's Tac-1 on 40, my Norcal 40a on 40, and the Mini-Pig on 10. Band condx were a bit rocky but we managed to use the club call and make contact with many Piggies. Mike (WB8ICN #-68), Mac (AF4PS #-51), Aron (N10DL #-122), Rick (WB6JBM/4 #-2), Fred (N9TA #-156), and Andrew (AC7CF #-71) were all in the logs for Saturday night.

We had about 30 or so people come to our campsite and look at the

freakshow, er I mean, stations. The coolest thing was that just about every single one of them made a comment like "Here are the real hams." or "Look at that! Real Hams!" so I was pretty stoked to be there and part of the QRP experience. Hands down, Diz had them all foaming at the piehole with his Multi-Pig and the Capacitive Paddles. I think we had twice as many inquiries on those paddle/posts than any of the other equipment there.

I must say that my snoring was irritating a female camper in the van next to our campsite. If I do only one thing well, it is indeed snoring. I am a record holder so I was quite pleased at her displeasure. One other special touch was they never shut off the mercury vapor lights...so the tent was lit up like a K Mart parking lot on the day after Thanksgiving. Who could sleep! Did I mention the FREE CHILI and HOT DOG dinner they gave us at 6PM on Saturday??? ALL YOU COULD EAT! Made for some weird sounds and smells throughout the camping area...but I won't go there.

At 8AM Sunday morning, Keith Harris (N9KH #-155) came to our site with his golf cart and loaded us up so we could get ready for the 9AM forum. Diz strung a quick dipole up and connected the Multi-Pig. I got my laptop setup with the projector and the NJQRP powerpoint presentation. Joining us at the forum were other piggies to the rescue! Kent (KB9VZS #-80) brought a wide variety of QRP goodies for show and tell, including a HW-7, a TT2, a Pixie, a Vectronics 20m Xcvt, and probably something else I am forgetting, and Rich (WB9LPU #-16) brought his SST 20 and his WONDERFUL handcrafted keys and paddles.

All in all it was a very good time. The Hoosier Hills Ham Club has asked us to come back next year. Maybe we can make this a midwestern Piggie Convention place? Who knows.

Anyway, we have lots of picture so stay tuned to the website.

Thanks go to Jim (AL7FS #-34) for donating 4 copies of the QRP-L CD's as giveaway prizes, Diz donated a copy of QRP Classics from ARRL Publications as a prize, QRP-ARCI sent a banner, which became the locator for the QRP Camp (I heard people saying, go down the road to the QRP banner and that's where they are), and about a dozen partial copies of the FDI compendium as prizes. Forum attendance was only about 23 or so, but everyone there was very interested in learning more about QRP operations, and seeing the rigs.

For more info on the Flying Pig QRP Club, just visit

<http://www.fpqrp.com>

No dues, no rules, just fun!

72 de KB9BVN #-57

oo

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=====
KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
    39.558 N    86.095 W    Johnson Co., Indiana
    GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
    Member of the American Radio Relay League - SOC #400
    FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
=====
```

Date: Tue, 3 Oct 2000 13:04:24 -0700 (PDT)
From: Jim Hale <kj5tf@yahoo.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [80667] Slate Gap island on 4 October
Message-ID: <20001003200424.29194.qmail@web702.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Tomorrow I will be returning to Slate Gap island, on
Beaver lake Arkansas.

Wednesday 4 October look for me CQ'ing on 14.060MHz
please. Most likely time is from 17:00 - 21:00Z.

You never know, I might end up on 21.060MHz, so pse
check there too.

The little un-inhabited island is the 3rd island Ive
activated under the rules of US Islands awards
program.

Yesterday I landed there and made 3 contacts with my
QRP+, and Black Widow vertical wire. I just have two
radials, but they are raised and it seems to get out
very well for such a simple portable setup.

The wire stinger is tied to the eye hook at the tip of
the Black Widow collapsable pole, and dangles down to
the coax, and radial connection near the ground.

For DC power on day trips I take along one battery pack. Its made up of a string of 10 "C" cell nicads I bought used in 1998.

Yesterday I worked a mobile stn in IN, and two QRP stations followed him. Don in TX was running just 1w, and Mike in MI was a full 5w.

My slogan "All Milliwatts, All The Time" was violated! I ran 1.5w yesterday! I left my pwr meter at home and had to guess. Today after checking I must report that shocking news. hi

Tomorrow may be my last chance in 2000 to work from any of these islands. This weekend we will get our 1st freezing WX. If we get a nice warm up later I might get another return this year.

There are some pics from last years expedition to Slate Gap on my webpage if you care to look.

Hope to hear you tomorrow!

de Jim KJ5TF
All Milliwatts, All The Time (mostly)

=====

<http://www.madisoncounty.net/~kj5tf/>
Milliwatting Editor ARCI QRP Quarterly
Join/renew membership QRP Amateur Radio Club International
<http://www.qrparci.org/arcijoin.html>
AR QRP#2 - Kingston, Arkansas 35.94N 93.47W
Private email kj5tf@madisoncounty.net

Do You Yahoo!?
Yahoo! Photos - 35mm Quality Prints, Now Get 15 Free!
<http://photos.yahoo.com/>

Date: Tue, 3 Oct 2000 16:06:36 -0400
From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>, "NJ-QRP List" <njqrp@njqrp.org>, "Howard Weinstein" <k3hw@yahoo.com>
Subject: [80668] RE: WARNING ...
Message-ID: <LPBBJAGIPFHKPJENAKLOGENKCJAA.n1bq@wulfden.org>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Howard, et al. I received my MK-33 key promptly as promised by K3HW in this morning's mail. It was in like new shape and a bargain at the price.

73 de brian, n1bq

> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU
> [mailto:owner-qrp-1@Lehigh.EDU]On Behalf Of
> Ray Johnston
> Sent: Friday, September 29, 2000 6:03 PM
> To: Low Power Amateur Radio Discussion
> Subject: WARNING - Re: QRP ITEMS FOR SALE - New and remaining items
>
>
> A WARNING TO THE GROUP! I sent a US Postal money order to this
> person over two years ago for a White Mountain 20 meter kit.
> To date I have never received the kit, the money order was
> cashed, and after a few months of excuses two years ago,
> Mr. Weinstein refuses to communicate with me by email,
> and I have no luck getting him to communicate via landline, either.
>
> If you choose to deal with him, I would suggest you use
> extreme caution, or kiss your money goodbye.

[snip]

Date: Tue, 3 Oct 2000 13:13:29 -0700
From: "John Moriarity" <k6qq@hdo.net>
To: <myetsko@insydesw.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [80669] Re: What's an RF VTVM?
Message-ID: <008301c02d76\$665f8220\$f7414cd1@JohnMoriarity>

> VTVM stood for Vacuum Tube Volt Meter.
>
> Some of the real popular meters back then were the Radio Shack
> Range Doublers, which I think was two versions. A cheap one
> at 10K/V and a good one at 50K/v. That meant if you were on
> the inexpensive unit on say a 10v Scale, the meter impedance

> was 100K. A 100v scale meant 1Meg. ...

I was pretty confused by this post, so let me take a try at it.

Analog multimeters used back in the dark ages were rated as to how much they loaded down the circuit under test.

The least expensive ones were "1000 ohms per volt". Basically, that meant that it used a 1 mA meter movement, so it had to draw one mil for a full scale reading. Using Mr. Ohm's law, $R = 1 \text{ volt} \div 1 \text{ mA}$, or 1000 ohms. This is enough current that you had to make corrections for the loading to the circuit caused by the meter.

Better multimeters were rated at "10,000 ohms per volt" and as you might guess, drew (1 volt divided by 10,000) 100 microamps for a full scale reading. Much less loading.

Now, on to the VTVM. *Most* of them were rated at about 11 megohms per volt. You can do the arithmetic.

RF probes were generally a diode detector with a little filtering to keep the RF out of the VTVM. They rely on having the very high impedance of the VTVM as a load, so they can charge a capacitor in the probe to the peak value of the RF signal. Most DMMs are high enough impedance to use here.

Most of them will not handle high voltages, as they used Germanium diodes as the detector. There were some that would, notably the Hewlett Packard 410B and C.

Most any Handbook will have information on making one of your own. I'm guessing that your friend needs it to neutralize the finals in his rig. In such case, a home-brew probe will be just fine, and calibration will not be an issue.

72,

John, K6QQ

Date: Tue, 3 Oct 2000 16:18:32 -0400
From: "Ed Tanton" <n4xy@att.net>
To: "SWL Reflector" <swl@qth.net>
Cc: "CW Reflector" <cw@qth.net>, "QRP-L Reflector" <qrp-l@Lehigh.EDU>, "Antennas

Reflector" <antennas@qth.net>
Subject: [80670] FW: Aurora Watch + An Unusual Asteroid
Message-ID: <CKEGICNFDIMCEKEDCEHF0EGJEEAA.n4xy@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here we go again...

-----Original Message-----
From: SpaceWeather.com [mailto:express@spaceweather.com]
Sent: Tuesday, October 03, 2000 2:49 PM
To: Space Science News
Subject: Aurora Watch + An Unusual Asteroid

Space Weather News for Oct. 3, 2000
<http://www.spaceweather.com>

Ongoing geomagnetic activity could intensify on Wednesday or Thursday when an Earth-directed solar coronal mass ejection arrives in the neighborhood of our planet. With the Moon just past New, it may be a good time for stargazers to watch for dark-sky aurora.

In other news, a Near-Earth Asteroid that passed our planet in September appears to be a binary space rock. See <http://spaceweather.com> for amateur video of the asteroid racing through the sky on October 2nd.

For more information and images, please visit <http://SpaceWeather.com>

Date: Tue, 3 Oct 2000 16:32:31 EDT
From: NB6M@aol.com
To: qrp-1@lehigh.edu
Subject: [80671] Re: What's an RF VTVM?
Message-ID: <a8.b52f10c.270b9c5f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Just for info, the designer of the RF probe described on the NJQRP website, Jim Pollock, indicates that the safe operating limit of his probe is about 14 Volts RMS. So, if you want to measure RF at levels higher than that (works out to 3.92 Watts across a 50 Ohm load), you will want to use the RF probe

shown in all the handbooks.

72

Wayne NB6M

Date: Tue, 3 Oct 2000 16:57:53 -0400
From: ekwik@rtimail.com
To: qrp-l@Lehigh.EDU
Subject: [80672] Michigan QRP Net
Message-ID: <OFFB932A7C.80824BBB-ON8525696D.006B8A3D@rtimail.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Just a last minute reminder about the weekly Tuesday night Michigan QRP net. Starts at 9:00 PM Eastern time at 3.535 MHz. NCS is AB8DF. Send your call when you hear QNI?. If NCS does not acknowledge your call and tells you to standby by sending your call followed by AS, call again after the next QNI?

All check ins are welcome

Ed AB8DF

Date: Tue, 3 Oct 2000 17:12:31 -0400
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [80673] Contest Calendar 2001 for the QRPers
Message-ID: <004a01c02d7e\$cb2c9640\$721a5cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

2nd Annual QRP Contest Calendar for 2001

www.n3epa.org

The Eastern PA QRP Club would like to announce the release of the 2nd Annual QRP Contest Calendar for 2001.

We are working on the QRP Contest Calendar for 2001.

It will be of photographic quality with color pictures, this will be 100% better than our first calendar. We plan to have the calendar ready to ship by the end of November 2000.

This calendar will list QRP contests and contests with QRP categories. It will be a fold-out style that you can hang on your wall next to your rig. There will be a lists of Web sites and contest managers calls. The Web site addresses will have the contest rules plus much more. The color pictures will feature the winners of kit-building contest that are held at the different QRP forums or conventions throughout the year. This is really a handy calendar to have in the shack. The calendar will measure 11" x 17" when open. It will be in color and B&W format, with the pictures and information on the top half. For more information and a sample of the calendar check out www.n3epa.org .

72 & 73
Good DXing

Ron Polityka
de N3EPA
n3epa@fast.net

vvv Eastern Pennsylvania QRP Web Page vvv
<http://www.n3epa.org>

Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@fast.net

Date: Tue, 3 Oct 2000 22:16:06 +0100
From: Majority Mike Capt 56 TRS/IP <mike.majority@luke.af.mil>
To: qrp-1@Lehigh.EDU
Message-ID: <95509081DF6CD411B2C700D0B78480127671F2@Mohawk.luke.af.mil>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The ARRL Antenna handbook (18th Edition, chapter on "Portable Antennas") has an idea for an antenna made from 300-ohm ribbon cable (50' for \$3.95 at Radio Shack). Tried the 20m version (dimensions given for other bands) with the ends 6-7' high and the center 4' high connected to my DSW-20, and first contact was with Kelso, WA (from my Phoenix QTH, forgot the other callsign).

The antenna uses 300-ohm ribbon cable for the feedline as well as the dipole, and has a matching capacitor a certain distance from the radio (distance/value depending on band, or dimensions are given for a matching stub in the same place), and the dipole top (ribbon cable) is also shorted a small distance in from the ends. It also attaches straight to a coax connector, then to the radio, no matching unit needed. Doesn't seem like it would work, but it does great. Dimensions are also listed for other bands. VERY light antenna to carry, and takes little space.

de Mike, N4VBV

Yes, K7DEE, KC7TNT, and those AZ SQR Pion guys have really got me bitten by the CW/QRP bug, and having a ball!

Date: Tue, 03 Oct 2000 17:32:48 -0400
From: Tim Soxman <tims@hhs.net>
To: Drbob92031@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [80675] Re: Has anyone tried this?
Message-ID: <39DA5080.4ED42CCD@hhs.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

Steve Horton has a nice little reel type dipole you can look at at www.radiobugs.com it will handle 100 watts and works on 80 thru 6. The price is right. The usual disclaimer, just a happy customer.

73

Tim W3ZVT

Drbob92031@aol.com wrote:

> This must be old stuff but I have been thinking of using two (2) metal tape
> measures for a dipole. The kind the you can carry on your belt and comes in
> any where from 15 feet to 35 feet in length. The concept is to pull out
> enough to make 1/2 the dipole from each case.
> Any thoughts please. It sounds to easy to be good.
> 72/73 de... Bob WA2EAW

Date: Tue, 03 Oct 2000 15:24:21 -0700
From: Allan Taylor <k7gt@qsl.net>
To: qrp-1@Lehigh.EDU

Subject: [80676] Re: (no subject) Twinlead portable dipoles
Message-ID: <39DA5C95.51695D04@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This little twinlead dipole was the subject of Zach Lau's RF column this month in QEX (Sept/Oct 2000 issue). Too bad he didn't tell more about his optimizations of the design as found in the ARRL Antenna Book s.

GT

--

Allan Taylor K7GT Pleasanton/Livermore CA

k7gt@qsl.net or k7gt@aol.com

Date: Tue, 3 Oct 2000 23:37:07 +0100
From: "Andy GM0NWI" <Gm0nwi@tesco.net>
To: "American QRP List" <qrp-l@lehigh.edu>
Subject: [80677] CQ Steve N4TKP.....Here's The Info You Asked For.....
Message-ID: <000701c02d8a\$914181a0\$a11aac3e@q1n3l2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve....!! I HAVE posted this mail to BOTH you're e-mail address's in the past 2 day's but thought I'd post it here on the QRP-L in case you missed it first time round.....

NO.....!! I'm NOT deadnot yet anyway..... only from the waist down, as I tell everyone!!

We'll this HAS been an episode has'nt it....? Hope you're well friend, and that life is treating you better than me for sure, always room for improvement here Steve, but not a lot can be done about that, so we have to make do with what has been chosen for us to have, by the "power's above"..... Hard really at most times but I soldier on.....

And then again the thought of nice little "gift's" arriving in the post, makes life a little more worth living...

So yes..! I've been wonderin` what has happened to you my friend, I've been "postin" regularly most weeks on the QRP-L, and was lookin` for anything

that you might have sent to it, but nothin` so far, then I decided to try a few e-mail`s to you, direct..... but thought that you mya have been busy and could`nt be bothered with my constant "barraignment" of mail, which was to see how thing`s had went with you tryin` to track the parcel down....

No harm done...!! I did think that perhap`s you`de decided to try and get some hard \$er`s for you`re kit`s that were "surplus to requirements", a little sad I was for sure, but thought .....Oh! Well..... he`s entitled to change his mind to look elsewhere...

So BOY...!! am I happy to hear from you after such a long absence on this one, and we may as well get the "ball rollin`" as we say here in GM-land... My HOME QTH address is as follow`s below, for you`re attention..... BUT again Steve please try and pay particular attention to the SPELLING of my TOWN NAME, as it`s similar in spelling of the monetory system used here in the UK for cash, and as I`d thought with you`re package and also what HAS happened in the past with other`s they have gone AWOL in the post, I think due to the mis-spelling of the TOWN name.....

When copying down my address to the PARCEL LABEL, if you just write EXACTLY what I have written for the address, it should reach me without much problem...

Better to warn than not at all.....hopefully no offence taken....?

Here`s my details.....:-

GMONWI
Mr Andrew Cunningham
33 Broom Court
St Ninians
STIRLING ****THE IMPORTANT PART FOR SPELLING PURPOSES****
Scotland
FK7 7UN

Home Telephone Numer INCLUDING my local Area Code in brakets (01786) 813092

One other thing Steve you WILL have to telephone you`re operator to see what other number`s you ADD to the beginning of the (01786) part of my telephone number, as you will be making an International Call, and will also need the International Code for Scotland..... this you add to the beginning of my telephone number and you should get through to me fine...

Unfortunatley I`m not aware at the moment what the international code is from the US to Scotland.....

All that remain`s is for me to say "Thanks A Million Friend" for YOU`RE patience and dilligence on this one, hopefully we will get somewhere with

this saga from now on and all parties will be happy in the end.....

72s de Andy

gm0nwi@tesco.net

A.R.S. GM0NWI

"Long Live QRP...!"

"All The Best Wishes From Bonnie Scotland.."

GQRP No.9576

"The Weakest Station In The Nation.."

QRP-L No.2165

ICQ No.31899603

"It is vain to do with more..."

what can be done with

less.."

Date: Tue, 03 Oct 2000 15:50:40 -0700

From: Ed Loranger <we6w@qsl.net>

To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [80678] Foxhunt 2001

Message-ID: <39DA62C0.F6562384@qsl.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi gang. Sure is exciting to see that the 2001
foxhunt will begin soon. I've winterized the
antenna connections to make it thru another year.

Besides the foxhunt excitement, I look forward
to attending Pacificon again. I've missed lots
of QRP-L postings so everything shown at P'con will
be a surprise.

The 4th and final K2 I built will soon be in
Gody's hands (AC6UV). I'll be hunting fox
with the Argonaut 509 that I recalibrated
this Summer. I do thank Gody for letting me
use the rig for the last few months after I
built it in Spring.

Many of you know of my sudden disability. I'm still
home now after 7 months and wish I were 100%

but just cannot enjoy the time off as I expected. I mention this in that many of you recall I ran some CW practice nets. Hopefully the doctors will overcome my myofascial disorder and return me to my prior ability.

Checking email every 5 to 7 days is abt. the best I can do so don't give up on my response if you email me.

Perhaps after I recover I'll build a 9 KV smk-1!!
Imagine using spark plug wires to connect the bug key!

haha.

72 all and good luck in all you do.
-Ed Loranger, WE6W

--

72/Ed we6w; A-1 OP; SOC#63; QRPL#1068
<http://www.qsl.net/we6w> Santa Rosa, CA
My 2 pennies worth is just common cents.

-----NetZero Free Internet Access and Email-----
<http://www.netzero.net/download/index.html>

Date: Tue, 3 Oct 2000 18:53:08 -0400
From: "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
To: <mprati@postech.ca>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [80679] RE: Any QRP enthusiasts at the Rochester Hamfest ?
Message-ID: <LPBBJAGIPFHKPJENAKLOIEOACJAA.n1bq@wulfdn.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I will be there, complete with my wife and Spenser the wonder mutt ...
our 6 month old Golden Retriever who never met a dangling wire he didn't
want to pull on! I usually keep 147.52 simplex on my talkie at
hamfests.

73 de brian, n1bq

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU
> [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Maxime Prati
> Sent: Tuesday, October 03, 2000 7:42 AM
> To: Low Power Amateur Radio Discussion
> Subject: Any QRP enthusiasts at the Rochester Hamfest ?
>
>
>
> Hi all !
>
> Anybody go to the Rochester hamfest this week-end ?
>
> I will be glad to have infos about QRP activities, meeting,
> get together
> will be appreciated !
>
> 73 de VE2HAC
>
>
> "Eagles soar, but weasels never get sucked into jet engines."
>
> Maxime Prati
> Embedded Systems Development
> Position Technology
> www.postech.ca
> mprati@postech.ca
>
>

End of QRP-L Digest 1963

